App. F. IX-4

Previous References
P. P. 89-38 (1-2)

1939 (P. P.)

File No. 78-39
Serial Nos. 1

Later References.
P.P. 69-40 (1-3)

P. 170

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. Nil

Part B for

SUBJECT.

Engineering Services Examination 1940.

Pol 115 & 22.7.40. To the Secretary to Hon'ble the Resident in Mysore.

Forwarded applications.

WD 0573—GPB—22,500—12-9-39

B.B. Shankar Rao
23.7.40.

774 8119/P

Engineering Services Exam 1940.

General and Revenue Secretariat | P.P. File No. 78 of 1939 | [App. P. III-2

Serial No.	
1	From The Secretary to the Hon'ble the Resident No. D. F. 364-40/Gt A dt 18th Jun. 40 forwarding copies of application forms which for distribution to persons who ask for them. Submitted with a draft Notification to the Compiler, as on the last occasion (Flag R)
	Issue Initials 19/6
RS 19/6	Issued P. 7809 dt 19th Jun. 40 to the Compiler. Applications received.
	From
	Mrs. N. R. Seshadri, M. S. Muthanna, C Viswesvaraiya — Channagiri
	V Si. Thapathi Rathnam — Davangere
	L. S Purushotham — Mysore
	Paul Pothen — Shimoga.
	6th Inst. was the last date for receipt of applications in this office. Six applications have been received. Submitted with draft letter to the Concerned D.C.s for verification of the details in the application forms. as on previous occasions. (Flag R)
RS 8/7	Issue Initials 8/7
	Issued P. 188-907 8th July. 40 to the DCs of Dts concerned. Submitted with a draft letter to the Residency intimating the number of applications received as noted (Flag R)
RS 9/7	Issue Initials 9/7
	Issued PC. 51 dt 9th July. 40 9/7 to the Resident

TYPING SECTION 19 JUNE 1940 IT.

Engineering Service Examination 1940

File No. of 194 . | General and Revenue Secretariat.

Serial No.

From. The D.M Shimoga.

C.C. 3/40-41 d 13th July. 40 returning the attestation form of Mr Sathar explaining the reasons.

The D.M Shimoga has given two reasons for returning unfilled the attestation form. (1) Absence of records of his academic career. It is seen from Flag E that he is an Engineering Graduate of the Mysore University & Flag D. Certificate from the Principal, Science College, Trivandrum. Evidently the Candidate has not explained to the D.M that he has sent the relevant papers to this office with the application. The idea of Verification is whether the Candidate's replies in person tally with the ones given in the application form.

(2) Regarding character and antecedents. It is seen from the Engineering College Principal's Certificate that his conduct was good during his College Career. The D.S.P's report also shows nothing adverse. Flag E

In view of the above, if approved the attestation form will be sent back to the D.M Shimoga for being filled up. A

The position above will be explained to the Dewan Sahib for orders. A may be done

3/157

(Chief Secretary)

16.7.40

CHIEF SECRETARY. 15 JUL. 1940 GOVT OF MYSORE.

508
4 14
382

435

Engineering Service Examination Regn.

General and Revenue Secretariat | P.P. File No. 78 of 1939. | [App. F. III–2

Serial No.	
RS 17/7	Subd with a draft to the DM Shimoga with regd to order action.
	Issued vide P. 383 dt 17th July 40 to the DM Shimoga
	From The DM Shimoga C.C. 3/40 dt 18th July 40 regarding the allotment from the files in.
RS 22/7	Subd with a draft and file to the Resident forwarding the applications (Vide Flag R) Issued vide Pd. 115 dt 22nd July 40 to the Resident

TYPING SL. 17 JULY 1940 AFT. & ...

NOTE—Contn. Sheet.

7746 1939

No.D.F.364-40/G & A.

THE OFFICE OF THE HON'BLE THE RESIDENT IN MYSORE.

Dated Bangalore, the 28th May 1940.

CHIEF SECRETARY. P.P. 28 MAY 1940 GOVT. OF MYSORE.

N O T I C E.

An examination for recruitment to (1) the Indian Railway Service of Engineers, (2) the Central Engineering Service, Class I, and (3) the Telegraph Engineering Service, Class I, will be held by the Federal Public Service Commission at Delhi, beginning on the 4th November 1940. The last date for the receipt of applications is the 8th July 1940. Application forms and full particulars should be obtained from the Chief Secretary to the Government of Mysore, the Dewan of Banganapalle, the President, State Executive Council, Sandur or the Collector, Civil and Military Station, Bangalore, as the case may be.

Copies of the Rules will be awaited + a Notification published in the M.G. on post occasions.

for SECRETARY TO THE RESIDENT.

To be published in the Mysore Residency Orders.

Copy forwarded (with compliments) to the

Chief Secretary to the Government of His Highness the Maharaja of Mysore, Bangalore,
Dewan of Banganapalle, Banganapalle,
President, State Executive Council, Sandur,
Collector, Civil & Military Station, Bangalore,
for information.

() Not to Collector.

2. Copies of the Rules, etc., relating to the examination will be forwarded to you as soon as printed copies become available.

8119/P. Pol 2140

THE OFFICE OF THE HON'BLE THE RESIDENT IN MYSORE,

Dated Bangalore, the 18th June 1940.

No.D.F.364-40/G & A. P.P. 78-39-1.

F.18/6. P.P.

A copy of the undermentioned paper is forwarded with compliments to the Chief Secretary to the Government of His Highness the Maharaja of Mysore, Bangalore, for favour of distribution to persons who ask for them.

2. Copies of the Attestation Form and the Memorandum for the Guidance of Officials are intended for official use only and should not be distributed to members of the public. Particular attention may kindly be paid to the directions contained in these documents.

3. The total number of applications received may kindly be reported to this Residency by the 15th July 1940. If no applications are received, an intimation to that effect may be given by this date. Applications of candidates and connected documents (including the Attestation forms) may be forwarded to this Residency not later than the 2nd August 1940 after making necessary verifications.

By order, etc.,

for SECRETARY TO THE RESIDENT.

1. Notice.
2. Indian Railway Service of Engineers Rules.
3. Telegraph Engineering Service, Class I, Rules.
4. Central Engineering Service, Class I, Rules.
5. Instructions to candidates regarding the filling up and submission of applications.
6. Application form.
7. Form of the Certificate of Practical training in Surveying
8. Syllabus.
9. Regulations for the Physical examination of candidates.
10. Attestation form (for official use only)
11. Memorandum for the Guidance of Officials (for official use only).

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

NOTICE.

A competitive examination for admission to (1) the Indian Railway Service of Engineers, (2) the Telegraph Engineering Service, Class I, and (3) the Central Engineering Service, Class I, will be held in Delhi, beginning on the 4th November, 1940, under the Rules published in the Gazette of India, dated the 18th May, 1940. Candidates accepted for admission to the examination will be informed at what place in Delhi and at what hour they should present themselves.

2. The examination will be a combined examination for the purpose of filling vacancies in the three Services mentioned above. A candidate may apply to be admitted to one or more of these Services. Only one application need be sent in and it should be stated therein whether a candidate wishes to enter for one or more Services. He will be required to pay the fees mentioned in the Rules once only and will not be required to pay separate fees for each Service for which he applies. If he proves successful as a candidate for more than one Service he will ordinarily be assigned to that Service for which he expressed a preference at the time of making his application, provided that the vacancies have not already been filled, but the Government of India reserve power to assign him to any Service for which he is a candidate, if in their opinion the exigencies of the public service render this desirable.

3. The number of vacancies to be filled on the results of this examination is as follows :—

(1) Indian Railway Service of Engineers :—

Three. One of these vacancies will be reserved for a Muslim.

(2) Telegraph Engineering Service, Class I :—

One. This vacancy will be unreserved.

(3) Central Engineering Service, Class I :—

Two. Both vacancies will be unreserved.

4. The application must be made through the Collector or Deputy Commissioner (but, in the case of Calcutta, the Commissioner of Police) to the proper authority. (See Rule 9 of the Rules.)

5. The proper authority is, for a Governor's Province, the Provincial Government, for Coorg, Delhi, Ajmer-Merwara, Baluchistan or the Andaman and Nicobar Islands the Chief Commissioner ; and, for a State in India, the Political Officer or Agent, who should be addressed through the Durbar.

6. No candidate will be admitted to the examination from whom the Collector or Deputy Commissioner (or, in the case of Calcutta, the Commissioner of Police) or the Political Officer or Agent has not received on or before the 8th July 1940 an application on the prescribed form accompanied by the necessary documents. Copies of the Rules and the application form, etc., may be obtained from the Provincial Government or Administration or Durbar concerned.

7. No allegation that an application form, or letter respecting such form, has been lost or delayed in the post will be considered, unless the person making such allegation produces a Post Office registration receipt or certificate of posting. Candidates who delay their applications until a late date will do so at their own risk. A candidate for whom a declaration under section 262 of the Government of India Act, 1935 is necessary should take immediate steps to obtain the same whether or not he has already obtained a declaration under section 96-A of the Government of India Act, 1919. He will not be appointed unless he has obtained the former declaration.

8. Candidates must have been born not earlier than the 2nd August, 1915 and not

later than the 1st August, 1920. *These age limits can in no case be relaxed.*

9. Any person who has appeared at an examination, the passing of which will render him eligible to appear at the examination now announced, but has not been informed of the result, may apply for admission to the latter examination. A candidate who intends to appear at such a qualifying examination may also apply, provided the qualifying examination is to be concluded before the commencement of the examination herein announced. His application will be accepted provisionally if he is eligible in all other respects and he will be required to furnish before the 1st August, 1940, to the Provincial Government, or thereafter to the Federal Public Service Commission, but not later than the date on which the results are ready for communication to the Government of India, proof of having passed such qualifying examination.

10. In all correspondence with the Federal Public Service Commission, candidates should state the name of the examination for which they have applied.

SIMLA,

The 16th May, 1940.

H. V. HAMPTON,

Secy., Federal Public Service Commission.

H62FPSC—4,000—28-5-40—GIPS

RAILWAY DEPARTMENT.

(RAILWAY BOARD.)

NOTIFICATION.

Simla, the 18th May 1940.

No. E.-40-R.R.-2.—The following rules for recruitment to the Indian Railway Service of Engineers are published for general information :—

RULES.

PART I.

Methods of Recruitment.

1. These Rules may be called the Indian Railway Service of Engineers Recruitment Rules.

2. For the purposes of these Rules—

(*a*) " Government " means the Governor-General in Council ;

(*b*) " The Commission " means the Federal Public Service Commission (India) ;

(*c*) " High Commissioner " means the High Commissioner for India ;

(*d*) " The Service " means the Indian Railway Service of Engineers ;

(*e*) " Direct appointment " means appointment otherwise than on the result of a competitive examination or by promotion or transfer from another Service.

3. The Service shall be recruited by the following methods :—

(*i*) By competitive examination held in India in accordance with Part II of these Rules.

(*ii*) By direct appointment of persons of non-Asiatic domicile by the High Commissioner for India, by selection from the United Kingdom in accordance with the rules made by him.

(*iii*) By promotion or transfer from another Service in accordance with Part III of these Rules.

(*iv*) By direct appointment of persons of Indian domicile, in accordance with Part IV of these Rules.

4. Subject to the provisions of rule 3, Government shall determine the method or methods to be employed for the purpose of filling any particular vacancies, or such vacancies as may require to be filled during any particular period, and the number of candidates to be recruited by each method.

5. Vacancies in the Service which are filled otherwise than by promotion shall be apportioned between the various communities in India in accordance with the provisions of the Government of India (Home Department) Resolution No. F. 14|17-B.|33-Ests., dated the 4th July 1934, and the supplementary instructions connected therewith.

PART II.

Recruitment by competitive examination.

6. A competitive examination for admission to the Service shall be held in India at such times and places as Government may prescribe by notice issued through the Commission. Every such notice will, when possible, announce the number of vacancies to be filled on the result of the examination.

7. If the examination held under this part of these Rules is a combined examination for the purpose of making appointments to more than one Service or Department, the following provisions shall apply :—

(*i*) Any person may apply to be admitted as a candidate for appointment in all or any of these Services or Departments for which he is eligible. If he wishes to compete for appointment in more than one Service or Department, he shall state on his application form which Services or Departments he wishes to compete for and the order of his preference between them, and in such case only one application form will be necessary and one payment of the fees referred to in rule 16 (and Appendix IV) will be sufficient.

(*ii*) Government shall assign successful candidates to each Service or Department on a consideration of all circumstances including any personal preference expressed by the candidate.

8. The candidates to be admitted to the examination shall be limited to such numbers, being not less than 200 and not more than 250, as the Commission may fix. If the number of candidates exceeds that limit, the Commission shall select from the applicants those who shall be admitted to the examination, and in doing so shall have regard to the suitability of the applicants and to the adequate representation of the various communities and provinces of India.

9. (*i*)* A candidate who is in the permanent service of the Government shall apply to the Commission for admission to the examination through the Head of his Office, who shall forward his application to the Commission through the Government concerned unless he refuses his consent to the application.

(*ii*) A candidate who is not in Government service, or is employed in Government service only in a temporary capacity at the time that he submits his application, shall apply to the Commission through the proper authority of the area in which his parents reside at the time of submitting his application, or have resided for a period of not less than three years, or in which the candidate has himself resided, otherwise than as a student, for a like period. A Government servant who is employed in a temporary capacity should, however, before submitting his application, obtain in writing the permission of the Head of the Office or Department in which he is employed and attach it to the application.

(*iii*) The proper authority for a Governor's Province shall be the Local Government of that Province ; for Coorg, Delhi, Ajmer-Merwara, British Baluchistan or Andaman and Nicobar Islands, the Chief Commissioner ; and for a State in India the Political Officer or Agent who must be addressed through the Government of the State.

(*iv*) No candidate may make more than one application in respect of any one occasion on which an examination is held.

10. A candidate must be a male and either—

(*a*) a British subject of Indian domicile whose father (if alive) is a British subject or a subject of a State in India or (if dead) was at the time of his death either a British subject or a subject of a State in India or a person in the permanent service of the Crown or a person who had retired from that Service ; or

*(*b*) a Ruler or a subject of a State in India, or a native of a tribal area or territory adjacent to India, in respect of whom a declaration has been made under Section 262 (1) of the Government of India Act, 1935.

Provided that in the case of a male British subject the requirements of this rule (other than that concerning domicile) may be waived by Government if satisfied that their observance would occasion exceptional hardship and that the candidate is so closely connected by ancestry or upbringing with His Majesty's dominions as to justify special treatment.

11. A candidate must have attained the age of 20 and must not have attained the age of 25 on the first day of August of the year in which the examination begins.†

12. A candidate must satisfy the Commission that his character is such as to make him suitable for appointment to the Service|Department.

13. A candidate must have—

(*i*) passed sections A and B of the Associate Membership Examination of the Institution of Engineers (India) or have any other educational qualifications recognised by that institution as exempting from passing these parts, *vide* Appendix I ; or

(*ii*) obtained an engineering degree of one of the universities mentioned in Appendix II under the conditions prescribed in that appendix ; or

(*iii*) passed the Associate Examination of the City and Guilds Institute (Imperial College of Science and Technology, South Kensington) in Civil Engineering ; or

(*iv*) obtained the Diploma of Faraday House, London ; or

(*v*) passed the Associate Examination from the Bengal Engineering College in Mechanical Engineering.

Provided that in exceptional cases the Commission may on the recommendation of the Central Government or a local Government treat as a qualified candidate, a candidate who, though he has not all or any of the qualifications prescribed in this rule, has passed examinations conducted by other institutions of a standard which in the opinion of the Commission justifies his admission to the examination.

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* The submission of applications by persons in Government service is further governed by the Government Servant's Applications for Posts (Central Services) / (Railway Services) Rules published with the Government of India, Home Department / Railway Department (Railway Board) Notification No. F. 510-31-Ests., dated the 7th June 1934, / No. E.-34-R. R. I., dated the 22nd January 1935, as amended from time to time and the corresponding rules made by Provincial Governments.

* The candidate referred to in Rule 10(*b*) should apply to the local Political Officer for the issue of the necessary declaration.

† *Note.*—These age-limits apply whether or not the candidate is already in Government Service.

14. No candidates shall be admitted to the examination unless he holds a certificate of admission from the Commission.

The decision of the Commission as to the eligibility or otherwise of a candidate for admission to the examination shall be final.

15. No recommendations except those invited in the form of application shall be taken into consideration. Any attempt on the part of a candidate to obtain support for his candidature by other means may disqualify him for admission.

16. Candidates must pay such examination fees as Government may prescribe (see Appendix IV). No claim for a refund of any of these fees will be entertained, nor can they be held in reserve for subsequent examinations or selections.

17. Examinations under these Rules shall be conducted by the Commission in the manner prescribed in the regulations which form Appendix III to these Rules.

18. (*i*) After every examination the Commission shall make a list of the candidates in order of their merit as disclosed by the aggregate marks finally awarded to each candidate, and in that order so many candidates up to the number of vacancies announced under rule 6 above, as are found by the Commission to be qualified by the examination and are considered by Government or the appointing authority, as the case may be, to be suitable in all other respects, shall be appointed.

(*ii*) For the purposes of rule 5 of these Rules, selections for appointment to vacancies to be filled by members of a particular community or communities shall be made by Government or the appointing authority, as the case may be, after consulting the Commission, from candidates of that community or communities who have qualified at the examination.

19. A candidate must be in good mental and bodily health and free from any physical defect likely to interfere with the discharge of his duties as an officer of the Service. A candidate who (after such physical examination as Government or the appointing authority, as the case may be, may prescribe) is found not to satisfy those requirements will not be appointed. Only candidates who are likely to be appointed will be physically examined.*

20. (*a*) Appointments shall be made on probation for a period of three years.

(*b*) If, in the opinion of Government, the work or conduct of an officer on probation is unsatisfactory, or shows that he is unlikely to become efficient, Government may discharge him forthwith.

(*c*) On the conclusion of his period of probation, Government may confirm the officer in his appointment, or, if his work or conduct has in the opinion of Government been unsatisfactory, Government may either discharge him from the Service or may extend his period of probation for such further period as Government may think fit.

(*d*) If no action is taken by Government under sub-rule (*b*) or (*c*) of this rule, the period after the prescribed period of probation shall be treated as an engagement from month to month, terminable on either side on the expiration of one calendar month's notice in writing.

(*e*) If the power to make appointments in the Service is delegated by Government to any officer, that officer may exercise any of the powers of Government under this rule.

PART III.

Recruitment by promotion or transfer from another Service or Department.

21. Recruitment by promotion shall be made by selection from among the specially qualified officers of the Lower Gazetted Service and Engineering Subordinates, after consultation with the Commission, and the person selected will be appointed by Government. No one shall have any claim to such promotion as of right.

22. Recruitment by transfer of officers of Royal Engineers or any other service shall be made by Government as may be considered necessary from time to time.

23. If the power to make appointments in the Service is delegated by Government to any officer, that officer may exercise any of the powers of Government under this Part of these Rules.

PART IV.

Recruitment by Direct Appointment.

24. Recruitment by direct appointment of eligible persons living in India shall be made in India on the recommendation of the Commission, and of eligible persons living out of India on the recommendation of the High Commissioner, who may appoint a selection board to advise him concerning the appointment, and may determine the manner in which any such selection board shall exercise its functions.

25. Every candidate for direct appointment—

(*a*) must be a male and either—

(*i*) a British subject of Indian domicile whose father (if alive) is a British subject, or (if dead) was at the time of his death either a British subject or a subject of a State in India or a person in the permanent service of the Crown, or a person who had retired from that service, or

(*ii*) a Ruler or a subject of a State in India, or a native of a tribal area or territory adjacent to India, in respect of whom a declaration has been made under section 262 (1) of the Government of India Act, 1935.

*In order to prevent disappointment candidates are advised to have themselves examined by a medical practitioner, preferably a Civil Surgeon, before applying for admission to the examination. Particulars of the nature of the physical test to which candidates will be submitted before appointment and of the standards required can be had from the Commission.

(*b*) must be not less than 20 and not more than 25 years of age on the first day of August in the year in which the appointment is to be made ;

(*c*) must have

(*i*) passed Sections A and B of the Associate Membership Examination of the Institution of Engineers (India) or have any other educational qualifications recognised by that institution as exempting from passing these parts, *vide* Appendix I ; or

(*ii*) obtained an engineering degree of one of the universities mentioned in Appendix II under the conditions prescribed in that appendix ; or

(*iii*) passed the Associate Examination of the City and Guild Institute (Imperial College of Science and Technology, South Kensington) in Civil Engineering ; or

(*iv*) obtained the Diploma of Faraday House, London ; or

(*v*) passed the Associate Examination from the Bengal Engineering College in Mechanical Engineering ;

and such other special qualifications as Government may prescribe for the Service or post to which appointment is to be made ;

(*d*) must satisfy the Commission, or the High Commissioner, as the case may be, that his character and antecedents are such as to make him suitable for appointment to the Service or post.

26. The decision of the Commission, or of the High Commissioner, as the case may be, on the question whether a candidate does, or does not, satisfy any of the requirements of rule 25 [including special qualifications, if any prescribed under sub-rule (*c*) of rule 25] shall be final.

*27. Government may modify or waive all or any of the requirements of rule 25 (*a*), (*b*) and (*c*) when an appointment for work of a special nature is to be made and it is not practicable to obtain a suitable candidate who fulfils all the requirements of rule 25.

28. A candidate for direct appointment must be in good mental and bodily health and free from any physical defect likely to interfere with the discharge of his duties as an officer of the Service. A candidate who (after such medical examination as Government or the appointing authority, as the case may be may prescribe) is found not to satisfy those requirements will not be appointed.

29. When a direct appointment is to be made on the recommendation of the Commission every candidate must, at the time of application, pay such fee as Government after consulting the Commission may from time to time prescribe, and candidates must submit such proofs of their qualifications as the Commission may require.

30. (*a*) Direct appointments will be made on probation for a period of three years.

(*b*) If the work or conduct of an officer on probation is in the opinion of Government unsatisfactory, Government may discharge him forthwith.

(*c*) On the conclusion of his period of probation, Government may either confirm the officer in his appointment, or, if his work or conduct has in the opinion of Government been unsatisfactory, Government may either discharge him or extend his period of probation for such further period as Government may think fit.

(*d*) If no action is taken by Government under sub-rule (*b*) or (*c*) of this rule, the period after the prescribed period of probation shall be treated as an engagement from month to month, terminable on either side on the expiration of one calendar month's notice in writing.

(*e*) If the power to make appointments in the Service is delegated by Government to any officer, that officer may exercise any of the powers of Government under this rule.

*Any exercise of the power under this rule will be subject, after the commencement of the Government of India Act, 1935, to the provisions of Section 262 thereof.

APPENDIX I.

List of Examinations recognised by the Institution of Engineers (India) as exempting from Sections "A" and "B" of the Associate Membership Examination [vide *Rule 13* (*i*)].

Institution of Civil Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Mechanical Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Electrical Engineers.	The Graduateship Examination.
Oxford	B. A. with Honours in Engineering Science, Final Honours School.
Cambridge ..	B. A. (Honours) Mechanical Sciences Tripos.
St. Andrews ..	B. Sc. in Engineering.
Glasgow	B. Sc. in Engineering.
Edinburgh ..	B. Sc. in Engineering.
Dublin	B. A. I. (Ordinary, or with Honours in Engineering).
McGill University (Montreal).	B. Sc. in "Civil" or "Mechanical" or "Electrical" or "Metallurgical" or "Mining" Engineering (Honours or Ordinary Degree).
Durham	B. Sc. in "Civil" or "Mechanical" or "Electrical" Engineering, or in "Naval Architecture". (Honours or Ordinary Degree).
London	B. Sc. in (External and Internal Degree) Engineering [not including the B. Sc. Engineering (Mining) or the B. Sc. in Engineering (Metallurgy)]. (Honours or Ordinary Degree.)

Victoria University (Manchester).	B. Sc. Tech. (Ordinary Course Division I) in Electrical Engineering.
	B. Sc. Tech. (Ordinary Course Division II) in Electrical Engineering.
	B. Sc. (Higher Course Honours Division or Ordinary Course, Division I) in Municipal Engineering.
	B. Sc. Tech. (Ordinary Course Division I) in Mechanical Engineering.
	B. Sc. in Engineering. (Honours Degree; or Ordinary Degree from 1925 onwards.)
	B. Sc. Tech. in "Mechanical" or "Electrical" Engineering. (Honours Division in the Final Examination.)
Birmingham ..	B. Sc. in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours or Ordinary Degree.)
Liverpool	B. Eng. in "Civil" or "Mechanical" or "Marine" or "Electrical" Engineering, or "Naval Architecture". (Honours or Ordinary Degree.)
Leeds	B. Sc. in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours or Ordinary Degree.)
Sheffield	B. Eng. in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours Degree or Ordinary Degree with a First Class in the Final Examination.) A first class in the final examination will not be required in the cases of degrees obtained in or after June 1930.
Bristol	B. Sc. in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours or Ordinary Degree.)
Wales	B. Sc. in "Civil" or "Mechanical" or "Electrical" Engineering.
National University of Ireland.	B. E.
Queen's University (Belfast).	B. Sc. in Engineering.
Sydney	B. E. in "Civil" or in "Mechanical" and "Electrical" Engineering.
Melbourne	B. C. E., B. Mech. E. or B. E. E.
New Zealand ..	B. E. in "Civil" or "Mechanical" or "Electrical" Engineering.
Adelaide	B. E. in "Civil", "Mechanical" or "Electrical" Engineering.
Queensland.. ..	B. E. in "Civil" or in "Mechanical" and "Electrical" Engineering.
Western Australia ..	B. E.
South Africa ..	B. Sc. in Engineering (until 1921).
Cape Town ..	B. Sc. in Engineering.
Witwatersrand ..	B. Sc. in "Civil" or "Mechanical" and "Electrical" Engineering.
Calcutta	B. E. Examination in Civil or Mechanical or Electrical Engineering.
Bombay	B. E. Examination.
Madras	B. E. Examination.
Benares Hindu University	B. Sc. Examination in Engineering
Patna	B. C. E.
Rangoon	B. Sc. in Engineering from 1932.
Mysore	B. E. in Civil, Mechnical or Electrical Engineering.
Punjab	B. Sc. in Engineering.

Diplomas in Engineering—

City and Guilds (Engineering) College, Kensington.

University College, London.

King's College, London.

City and Guilds of London Institute, Technical College, Finsbury: Diploma or Higher Certificate (three years' course) if taken by Matriculated Students or Students who have passed the Institution Studentship Examination or its recognised equivalent.

Royal Technical College Glasgow. Final Diploma Examination in Mechanical or Electrical Engineering provided an approved Matriculation Examination has been passed before beginning the course.

Thomason Civil Engineering College, Roorkee—Assistant Engineer's Certificate.

Indian Institute of Science, Bangalore—

Certificate in Electrical Technology.

Certificate in Electrical Communication Engineering.

Manchester—Certificate in Technology, Mechanical or Electrical Engineering.

Punjab College of Engineering and Technology (formerly Maclagan Engineering College), Moghalpura—

"A" Class Diploma in the first division (65 per cent. or more marks) and in the Honours Division. (80 per cent. or more marks) in (*i*) Mechanical Engineering, and (*ii*) Electrical Engineering from 1935.

Heriot-Watt College, Edinburgh—Associateship in Electrical Engineering.

Naval Officers :—

Examination which qualifies as Lieutenant (E.).

Royal Naval College, Greenwich :—

Professional Certificate for Constructors.

APPENDIX II.

List of University degrees which will be recognized for admission to the examination [vide *Rule 13* (*ii*)].

Cambridge.—Ordinary degree B.A. in Engineering, provided the graduate has passed in the principal subjects, Engineering I, Engineering II and Engineering III.

Glasgow.—B. Sc. in Naval Architecture (Honours or Ordinary degree).

Durham.—B. Sc. in Marine Engineering.

London.—B. Sc. Ordinary or with Honours [not including the B. Sc. in Engineering (Mining) or the B. Sc. in Engineering (Metallurgy)].

Victoria University (Manchester).—B. Sc. in Engineering (Honours degree or Ordinary degree obtained during 1920-24).

Aberdeen.—B. Sc. in Engineering (Honours or Ordinary degree).

NOTE.—The above degrees will be accepted only if taken after three years' study and the passing of the regular examinations in the several Universities. The conditions as to three years' study will not, however, apply to Indians who, having taken an Indian degree, which exempts them from part of the University course, shall have taken one of the above degrees in less than three years in accordance with the regulations of the University concerned.

APPENDIX III.

Standard and Syllabus of the Examination (vide *Rule 17*).

The subjects of the examination will be—

1. (*a*) *Compulsory*—

	Marks.
(1) English (including Essay and Precis Writing) ..	100
(2) General Knowledge ..	200
(3) Applied Mathematics ..	100
(4) Applied Mechanics (including Strength of Materials and Theory of Structures)	100
(5) Surveying	100
(6) *Viva voce*	200

(*b*) *Optional*—

Not more than two of the following subjects :—

	Marks.
(1) Physics (including Electricity and Magnetism) ..	100
(2) Prime Movers	100
(3) Hydraulics and Hydraulic machines	100
(4) Construction	100
(*i*) Building materials,	
(*ii*) Design of structures,	
(*iii*) General principles governing the design of railways, roads, harbours and other works.	
(5) Sanitary Engineering and Water Supply ..	100
(6) Electrical Engineering ..	100

2. A candidate must produce a certificate that he has undergone satisfactory training in Surveying, including practical Surveying, for a period of at least one year in a college or institution recognised by the Commission for the purpose of admission to the competitive examination for the Service. The certificate must be signed by the Principal of, or the head of the department of Surveying in, the college or institution.

For this purpose the Commission will ordinarily accept a certificate from any college or institution mentioned in rule 13 of the foregoing Rules or in Appendices I and II, or from any college which is affiliated to any University mentioned in the same Rule and Appendices. The Commission, however, reserve to themselves the power not to accept any certificate if they are satisfied that the practical training referred to therein falls short of the requirements of the Service, and their decision in the matter will be final.

3. The standard and syllabus of the examination will be such as the Commission shall prescribe and the Commission shall, if they think it desirable, determine what shall be the qualifying mark in all or any of the subjects of the examination.

4. From the marks assigned to candidates in each subject such deduction will be made as the Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

5. If a candidate's handwriting is not easily legible, a deduction will be made on this account from the total marks otherwise accruing to him.

6. Credit will be given for good English including orderly, effective and exact expression combined with due economy of words in all subjects of the examination and not only in subjects which are specially devoted to English.

APPENDIX IV.

FEES.

(*Vide Rule 16.*)

Candidates must pay the following fees :—

A.—To the Federal Public Service Commission—

(*i*) Rs. 7-8-0 with the application form ;

(*ii*) Rs. 75 immediately on receipt of an admission certificate from the Federal Public Service Commission.

(Only Treasury Receipts for these amounts will be accepted by the Federal Public Service Commission. The Federal Public Service Commission cannot accept fees in cash or postal order or cheques.)

B.—To the General Manager of the Railway concerned—

Rs. 16 before examination by a Medical Board in the case of successful candidates.

No claim for a refund of these fees will be entertained, nor can they be held in reserve for subsequent examinations or selections.

APPENDIX V.

Particulars regarding the Indian Railway Service of Engineers.

(The arrangements and salaries hereinafter described are subject to revision according to the requirements of the Service.)

1. (*a*) Candidates selected for appointment under rule 3 (*i*) will be appointed as probationary officers for a period of three years.

They shall undergo practical training for the first two years. While under training they shall draw :—

(*i*) Rs. 250 in the first year ;

(*ii*) Rs. 275 in the next year, provided that they have passed any departmental examinations that may be prescribed, otherwise they will remain on Rs. 250.

Those favourably reported on at the end of two years' training will be given charge of a working post during the third year of their probationary period on a commencing pay of Rs. 350. At the end of this period they will be required to undergo a final practical departmental examination which will include tests in levelling, surveying, practical design and setting out of work, the manufacture and use of materials, analysis of rates, drawing and estimating, and will, if successful, be confirmed in the Indian Railway Service of Engineers. On confirmation their agreement will be continued subject to their service being terminable on six months' notice on either side.

(*b*) The Governor General in Council may, however, at his discretion appoint persons to the Indian Railway Service of Engineers (including Bridge Engineers) direct to the Assistant Officers grade on Rs. 350 subject to the proviso, that such persons have had at least two years' practical experience prior to their appointment. Such persons will be appointed on agreement as officers to the Indian Railway Service of Engineers on probation for three years on a commencing pay of Rs. 350 at the conclusion of which period those who are favourably reported upon will be required to undergo a final practical departmental examination which will include tests in levelling, surveying, practical design and setting out of work, the manufacture and use of materials, analysis of rates, drawing and estimating, and will, if successful, be confirmed in the Indian Railway Service of Engineers. On confirmation their agreement will be continued subject to their service being terminable on six months' notice on either side.

2. Officers will be required to pass a riding test within two years of the commencement of the probationary term. .

3. Officers will be required to pass a language examination in *Urdu* by the Lower Standard modified to suit the requirements of the Railways, before they can be confirmed or granted any increment, beyond the first, during the period of probation. Officers who can read, write and speak in Urdu may be exempted by the General Manager from passing the language examination. Failure to pass the examination within the probationary period involves liability to removal from service.

4. Officers of the Indian Railway Service of Engineers, recruited under these regulations, will not be entitled to pension on quitting the service, but will be eligible throughout their service for the benefits of the State Railway Provident Fund, to which they will be required to subscribe, and by the rules of which Fund they will be required to abide. A summary of the benefits of the State Railway Provident Fund will be found in rule 12.

5. Pay will commence from the date of joining service. Service for increments will also count from the same date. Particulars as to pay are contained in this Appendix.

6. Officers recruited under these regulations shall be eligible for leave in accordance with the rules for the time being in force applicable to officers of State Railways.

7. Officers will ordinarily be employed throughout their service on the Railway to which they may be posted on first appointment and will have no claim, as a matter of right, to transfer to some other Railway. But the Government of India reserve the right to transfer such officers, in the exigencies of service, to any other Railway or project in or out of India. Officers will be liable to serve in the Stores Department of the State Railways if and when called upon to do so.

8. The relative seniority of officers appointed under rule 3 (*i*) will ordinarily be determined by their order of merit in the competitive examination. The Government of India, however, reserve the right of fixing seniority at their discretion in individual cases. They also reserve the right of assigning to officers appointed under rules 3 (*ii*), (*iii*) and (*iv*) positions in the seniority list at their discretion.

9. The following are the rates of pay admissible to officers appointed in India to the Indian Railway Service of Engineers.

Persons recruited to the Indian Railway Service of Engineers shall be considered on probation for a period of three years. They shall undergo practical training during the first two years. While under training they shall draw—

(*a*) in the first year Rs. 250,

(*b*) in the next year, provided they have passed any departmental examinations that may be prescribed, Rs. 275, otherwise they will remain on Rs. 250. After two years, and provided they have passed all the departmental examinations prescribed, they will start on the time-scale prescribed below, *viz.*, Rs. 350.

The Governor General in Council may however at his discretion appoint persons to the Indian Railway Service of Engineers (including Bridge Engineers) direct to the Assistant Officers' grade on Rs. 350 per mensem subject to the proviso that such persons have had at least two years practical experience prior to their appointment :—

Assistant Officers.

Rs. 350—25- 450, and Rs. 500 in 7th year on time-scale.

District Officers.

Grade III (to include 50 per cent. of the District Officers' posts)—Rs. 750 per mensem.

Grade II (to include 30 per cent. of the District Officers' posts)—Rs. 850 per mensem.

Grade I (to include 20 per cent. of the District Officers' posts)—Rs. 950 per mensem.

NOTE.—No officiating appointments will be permissible between the three grades of District Officers.

ADMINISTRATIVE POSTS.

	Rs.
Deputy Chief Engineers, N.-W., E. I., G. I. P. and E. B. Railways ..	1,300
Chief Engineers, N.-W., E. I., E. B. and G. I. P. Railways ..	2,250

10. The increments will be given for approved service only, and in accordance with rules of the Department.

11. Promotions to the administrative grades are dependent on the occurrence of vacancies in the sanctioned establishment and are made wholly by selection : mere seniority is considered to confer no claim for promotion.

Provident Fund.

12. The following is a summary of the rules relating to Provident Fund applicable to officers appointed to the Indian Railway Service of Engineers :—

The State Railway Provident Fund is established on the following basis :—

(*i*) Every officer is required to subscribe to the Provident Fund at a uniform monthly rate of one-twelfth of emoluments as defined in the Provident Fund Rules, to which is added half-yearly a bonus at the rate of 100 per cent. of an officer's subscriptions for the half year.

(*ii*) Compound interest at the rate announced for the purpose by the Governor General in Council from time to time is allowed on the officer's subscription and bonus.

(*iii*) The sum standing to the credit of an officer, or the balance thereof after making any authorised deduction, is paid to him on quitting the service ; or in the event of his death before retirement, to his legal representatives.

(*iv*) Officers of Indian State Railways are also eligible on retirement, at the discretion of the Railway Board, for special contribution for good, efficient, faithful and continuous service on the following conditions :—

(*a*) Completion of 30 years' service, or

(*b*) Attainment of the age of 50 years, or

(*c*) Retirement on account of permanent incapacity due to bodily or mental infirmity, or

(*d*) Abolition of appointment due to a reduction of establishment, if other suitable employment cannot be found for the officer.

The amount of special contribution admissible is as follows :—

(*a*) For service not exceeding 18 years, half a month's pay for each year of service, subject to a maximum of six months' pay ;

(*b*) For service in excess of 18 years, six months' pay *plus* half a month's pay for each year after the eighteenth, subject to a maximum of 12 months' pay or Rs. 25,000 whichever is less.

In case of an officer's death while in service the special contribution is paid to his widow or children dependent on him.

A. C. GRIFFIN,
Secretary, Railway Board.

DEPARTMENT OF COMMUNICATIONS.

RESOLUTION.

POSTS AND TELEGRAPHS.

Simla, the 15th May 1940.

No. S.-97|2.—Telegraph Engineering Service, Class I.

RULES.

PART I.

Methods of Recruitment.

1. These Rules may be called the Telegraph Engineering Service, Class I, Recruitment Rules.

2. For the purposes of these Rules—

(*a*) "Government" means the Governor-General in Council ;

(*b*) "The Commission" means the Federal Public Service Commission (India) ;

(*c*) "High Commissioner" means the High Commissioner for India ;

(*d*) "the Service" means the Telegraph Engineering Service, Class I.

3. The Service shall be recruited by the following methods :—

(*i*) By competitive examination held in India in accordance with Part II of these Rules.

(*ii*) By promotion in accordance with Part III of these Rules.

4. Subject to the provisions of rule 3, Government shall determine the method or methods to be employed for the purpose of filling any particular vacancies, or such vacancies as may require to be filled during any particular period, and the number of candidates to be recruited by each method.

5. Vacancies in the Service which are filled otherwise than by promotion shall be apportioned between the various communities in India in accordance with the provisions of Government of India (Home Department) Resolution No. F. 14|17-B.|33-Ests., dated the 4th July 1934, and the supplementary instructions connected therewith.

PART II.

Recruitment by competitive examination.

6. A competitive examination for admission to the Service shall be held in India at such times and places as Government may prescribe by notice issued through the Commission. Every such notice will, when possible, announce the number of vacancies to be filled on the result of the examination.

7. If the examination held under this part of these Rules is a combined examination for the purpose of making appointments to more than one Service the following provisions shall apply :—

(*i*) Any person may apply to be admitted as a candidate for appointment in all or any of these Services for which he is eligible. If he wishes to compete for appointment in more than one Service, he shall state on his application form which Services he wishes to compete for and the order of his preference between them, and in such case only one application form will be necessary and one payment of the fees referred to in rule 16 (and Appendix IV) will be sufficient.

(*ii*) Government shall assign successful candidates to each Service or Department on a consideration of all circumstances including any personal preference expressed by the candidate.

8. The maximum number of candidates to be admitted to any examination may in the discretion of Government be limited to such number, not being less than 200, as Government may decide. If a limit is imposed and the number of candidates exceeds that limit, the Commission shall select from the applicants those who shall be admitted to the examination, and in doing so shall have regard to the suitability of the applicants and to the adequate representation of the various communities and provinces of India.

9. (*i*) A candidate must apply to be admitted to the examination before such date, in such manner, and in such form as the Commission may prescribe.

(*ii*)* If a candidate is in the permanent service of Government, he shall apply to the Commission for admission to the examination through the Head of his office who shall forward his application to the Commission through the Government concerned, unless he refuses his consent to the application.

(*iii*) If a candidate is not in Government service or is employed in Government service in a temporary capacity at the time that he submits his application he shall apply to the Commission through the proper authority of the area in which his parents reside at the time of submitting his application, or have resided for a period of not less than three years or in which the candidate himself resided, otherwise than as a student, for a like period. A Government servant who is employed in a temporary capacity should, however, before submitting his application obtain in writing the permission of the Head of the office or Department in which he is employed and attach it to the application.

*The submission of applications by persons in Government service is further governed by the Government Servants' Applications for Posts (Central Services)/(Railway Services) Rules [published with the Government of India, Home Department/Railway Department (Railway Board) Notification No. F. 510-31-Ests./No. E.-34-R.R.I., dated the 7th June 1934/22nd Janaury 1935 as amended from time to time] and the corresponding rules made by Provincial Governments.

(*iv*) The proper authority for a Governor's province shall be the Provincial Government of that province ; for Coorg, Delhi, Ajmer-Merwara, Br. Baluchistan or the Andaman and Nicobar Islands, the Chief Commissioner, and for a State in India, the Political Officer or Agent, who must be addressed through the Durbar.

(*v*) No candidate may make more than one application in respect of any one occasion on which an examination is held.

10. A candidate must be a male and either—

(*a*) a British subject of Indian domicile whose father (if alive) is a British subject or a subject of a State in India, or (if dead) was at the time of his death either a British subject or a subject of a State in India or a person in the permanent service of the Crown or a person who had retired from that Service ; or

*(*b*) a Ruler or a subject of a State in India, or a native of a tribal area or territory adjacent to India, in respect of whom a declaration has been made under Section 262 (1) of the Government of India Act, 1935.

Provided that in the case of a male British subject the requirements of this rule (other than that concerning domicile) may be waived by Government if satisfied that their observance would occasion exceptional hardship and that the candidate is so closely connected by ancestry or upbringing with His Majesty's dominions as to justify special treatment.

11. A candidate must have attained the age of 20 and must not have attained the age of 25 on the first day of August of the year in which the examination begins.†

12. A candidate must satisfy the Commission that his character is such as to make him suitable for appointment to the Service.

13. A candidate must—

(*i*) have passed sections A and B of the Associate Membership examination of the Institution of Engineers (India), or any other educational qualifications recognised by that Institution as exempting from passing these Parts, *vide* Appendix I ; or

(*ii*) have obtained an Engineering degree of one of the Universities mentioned in Appendix II under the conditions prescribed in that Appendix ; or

(*iii*) have passed the Associateship examination of the City and Guilds Institute (Imperial College of Science and Technology, South Kensington) in Civil Engineering ; or

(*iv*) have obtained a diploma of Faraday House, London ; or

(*v*) have passed the Associate examination of the Bengal Engineering College in Mechanical Engineering :

Provided that in exceptional cases the Commission may on the recommendation of the Central Government or a local Government treat as a qualified candidate, a candidate who, though he has not all or any of the qualifications prescribed in this rule, has passed examinations conducted by other institutions of a standard which in the opinion of the Commission justifies his admission to the examination.

14. No candidate shall be admitted to the examination unless he holds a certificate of admission from the Commission.

The decision of the Commission as to the eligibility or otherwise of a candidate for admission to the examination shall be final.

15. No recommendations except those invited in the form of application shall be taken into consideration. Any attempt on the part of a candidate to obtain support for his candidature by other means may disqualify him for admission.

16. Candidates must pay such examination fees as Government may prescribe (see Appendix IV). No claim for a refund of any of these fees will be entertained, nor can they be held in reserve for subsequent examinations or selections.

17. Examinations under these Rules shall be conducted by the Commission in the manner prescribed in the regulations which form Appendix III to these Rules.

18. (*i*) After every examination the Commission shall make a list of the candidates in order of their merit as disclosed by the aggregate marks finally awarded to each candidate, and in that order so many candidates up to the number of vacancies announced under rule 6 above, as are found by the Commission to be qualified by the examination and are considered by Government or the appointing authority, as the case may be, to be suitable in all other respects, shall be appointed.

(*ii*) For the purposes of rule 5 of these Rules, selections for appointment to vacancies to be filled by members of a particular community or communities shall be made by Government or the appointing authority, as the case may be, after consulting the Commission, from candidates of that community or communities who have qualified at the examination.

19. A candidate must be in good mental and bodily health, and free from any physical defect likely to interfere with the discharge of his duties as an officer of the Service. A candidate who (after such physical examination as Government or the appointing authority, as the case may be, may prescribe) is found not to satisfy those requirements will not be appointed. Only candidates who are likely to be appointed will be physically examined.*

* The candidate referred to in Rule 10 (*b*) should apply to the local Political Officer for the issue of the necessary declaration.

† These age-limits apply whether or not the candidate is already in Government service.

*In order to prevent disappointment candidates are advised to have themselves examined by a medical practitioner, preferably a Civil Surgeon, before applying for admission to the examination. Particulars of the nature of the physical test to which candidates will be submitted before appointment and of the standards required can be had from the Commission.

20. (*a*) Appointments shall be made on probation for a period of two years.

(*b*) If, in the opinion of Government the work or conduct of an officer on probation is unsatisfactory, or shows that he is unlikely to become efficient, Government may discharge him forthwith.

(*c*) On the conclusion of his period of probation, Government may confirm the officer in his appointment, or, if his work or conduct has in the opinion of Government been unsatisfactory, Government may either discharge him from the Service or may extend his period of probation for such further period as Government may think fit.

(*d*) If no action is taken by Government under sub-rule (*b*) or (*c*) of this rule, the period after the prescribed period of probation shall be treated as an engagement from month to month, terminable on either side on the expiration of one calendar month's notice in writing.

(*e*) If the power to make appointments in the Service is delegated by Government to any officer, that officer may exercise any of the powers of Government under this rule.

(*f*) Particulars as to pay and general conditions of service prescribed for probationers in the Telegraph Engineering Service, Class I, will be found in Appendix V.

PART III.

Recruitment by promotion.

21. Recruitment by promotion shall be made by selection from among the Assistant Engineers of Telegraph Engineering and Wireless Service (Class II) after consultation with the Commission, and the officer selected will be appointed by Government. No officer shall have any claim to such promotion as of right.

22. If the power to make appointments in the Service|Department is delegated by Government to any officer, that officer may exercise any of the powers of Government under this Part of these Rules.

APPENDIX I.

List of Examinations recognised by the Institution of Engineers (India) as exempting from Sections "A" and "B" of the Associate Membership Examination.

[*Vide* Rule 13 (*i*).]

Institution of Civil Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Mechanical Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Electrical Engineers.	The Graduateship Examination.
Oxford	B.A. with Honours in Engineering Science, Final Honours School.
Cambridge	B.A. (Honours) Mechanical Sciences Tripos.
St. Andrews ..	B.Sc. in Engineering.
Glasgow	B.Sc. in Engineering.
Edinburgh	B.Sc. in Engineering.
Dublin	B.A.I. (Ordinary or with Honours in Engineering).
McGill University (Montreal).	B.Sc. in "Civil" or "Mechanical" or "Electrical" or "Metallurgical" or "Mining" Engineering (Honours or Ordinary Degree).
Durham	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering, or in "Naval Architecture" (Honours or Ordinary Degree).
London	B.Sc. in (External and Internal Degree) Engineering not including the B.Sc. Engineering (Mining) or the B.Sc. in Engineering (Metallurgy). (Honours or Ordinary Degree).
Victoria University (Manchester).	B.Sc. Tech. (Ordinary Course, Division I) in Electrical Engineering; B.Sc. Tech. (Ordinary Course, Division II) in Electrical Engineering. B.Sc. Tech. (Higher Course, Honours Division or Ordinary Course, Division I) in Municipal Engineering; B.Sc. Tech. (Ordinary Course, Division I) in Mechanical Engineering. B.Sc. in Engineering (Honours degree: or Ordinary degree from 1925 onwards); B.Sc. Tech. in "Mechanical" or "Electrical" Engineering (Honours Division in the Final Examination).
Birmingham ..	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering (Honours or Ordinary degree).
Liverpool	B.Eng. in "Civil" or "Mechanical" or "Marine" or "Electrical" Engineering, or "Naval Architecture" (Honours or Ordinary degree).
Leeds	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering (Honours or Ordinary degree).
Sheffield	B.Eng. in "Civil" or "Mechanical" or "Electrical" Engineering (Honours degree or Ordinary degree with a First Class in the Final Examination). A first class in the Final Examination will not be required in the cases of degrees obtained in or after June 1930.
Bristol	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering (Honours or Ordinary degree).
Wales	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering.
National University of Ireland.	B.E.
Queen's University (Belfast).	B.Sc. in Engineering.
Sydney	B.E. in "Civil" or in "Mechanical" and "Electrical" Engineering.
Melbourne	B.C.E., B. Mech. E. or B.E.E.
New Zealand ..	B.E. in "Civil" or "Mechanical" or "Electrical" Engineering.
Adelaide	B.E. in "Civil", "Mechanical" or "Electrical" Engineering.
Queensland ..	B.E. in "Civil" or in "Mechanical" and "Electrical" Engineering.
Western Australia ..	B.E.
South Africa ..	B.Sc. in Engineering (until 1921).
Cape Town ..	B.Sc. in Engineering.
Witwatersrands ..	B.Sc. in "Civil" or "Mechanical" and "Electrical" Engineering.
Calcutta	B.E. Examination in Civil or Mechanical or Electrical Engineering.
Bombay	B.E. Examination.
Madras	B.E. Examination.

Benares Hindu University.		B.Sc. Examination in Engineering.
Patna	.. ..	B.C.E.
Rangoon	.. ..	B.Sc. in Engineering from 1932.
Mysore	.. ..	B.E. in Civil, Mechanical or Electrical Engineering.
Punjab	.. ..	B.Sc. in Engineering.

Diplomas in Engineering :—

City and Guilds (Engineering) College, Kensington.

University College, London.

King's College, London.

City and Guilds of London Institute, Technical College, Finsbury—Diploma or Higher Certificate (three years' course) if taken by Matriculated Students or Students who have passed the Institution Studentship Examination or its recognised equivalent.

Royal Technical College, Glassgow—Final Diploma Examination in Mechanical or Electrical Engineering provided an approved Matriculation Examination has been passed before beginning the course.

Thomason Civil Engineering College, Roorkee—Assistant Engineer's Certificate.

Indian Institute of Science, Bangalore—Certificate in Electrical Technology or in Electrical Communication Engineering.

Manchester—Certificate in Technology, Mechanical or Electrical Engineering.

Punjab College of Engineering and Technology (formerly Maclagan Engineering College), Lahalpura—

"A" Class Diploma in the first division (65 per cent. or more marks) and in the Honours Division (80 per cent. or more marks) in (*i*) Mechanical Engineering and (*ii*) Electrical Engineering from 1935.

Heriot-Watt College, Edinburgh—Associateship in Electrical Engineering.

Naval Officers :—

Examination which qualifies as Lieutenant (E).

Royal Naval College, Greenwich :—

Professional Certificate for Constructors.

APPENDIX II.

List of University degrees which will be recognised for admission to the examination.

[*Vide* Rule 13 (*ii*).]

Cambridge.—Ordinary degree B.A. in Engineering, provided the graduate has passed in the principal subjects, Engineering I, Engineering II and Engineering III.

Glasgow.—B.Sc. in Naval Architecture (Honours or Ordinary degree).

Durham.—B.Sc. in Marine Engineering.

London.—B.Sc. Ordinary or with Honours [not including the B.Sc. in Engineering (Mining) or the B.Sc. in Engineering (Metallurgy)].

Victoria University (Manchester).—B.Sc. in Engineering (Honours degree or Ordinary degree obtained during 1920-24).

Aberdeen.—B.Sc. in Engineering (Honours or Ordinary degree).

NOTE.—The above degrees will be accepted only if taken after three years' study and the passing of the regular examinations in the several Universities. The conditions as to three years' study will not, however, apply to Indians who, having taken an Indian degree, which exempts them from part of the University course, shall have taken one of the above degrees in less than three years in accordance with the regulations of the University concerned.

APPENDIX III.

Standard and Syllabus of the Examination.

(*Vide* Rule 17.)

The subjects of the examination will be—

(*a*) *Compulsory*—

	Marks.
(1) English (including Essay and Précis writing) ..	100
(2) General Knowledge ..	200
(3) Applied Mathematics ..	100
(4) Electrical Engineering* ..	100
(5) *Viva Voce*	200

(*b*) *Optional*—

Not more than two of the following subjects :—

	Marks.
(1) Electrical Communication Engineering	100
(2) Applied Mechanics (including Strength of Materials and Theory of Structures) ..	100
(3) Physics (including Electricity and Magnetism) ..	100
(4) Construction—	100
(*i*) Building materials.	
(*ii*) Design of structures.	
(*iii*) General principles governing the design of Railway, Roads, Harbours and other works.	
(5) Surveying	100
(6) Prime Movers	100
(7) Hydraulics and Hydraulic Machines	100
(8) Sanitary Engineering and Water Supply	100

* A minimum proficiency will be required in this subject.

2. The standard and syllabus of the examination will be such as the Federal Public Service Commission shall prescribe and the Commission shall, if they think it desirable, determine what shall be the qualifying mark in all or any of the subjects of the examination.

3. From the marks assigned to candidates in each subject such deduction will be made as the Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

4. If a candidate's handwriting is not easily legible, a deduction will be made on this account from the total marks otherwise accruing to him.

5. Credit will be given for good English including orderly, effective and exact expression combined with due economy of words in all subjects of the examination and not only in subjects which are specially devoted to English.

APPENDIX IV.

FEES.

(*Vide* Rule 16.)

Candidates must pay the following fees :—

A. To the Federal Public Service Commission—

(*i*) Rs. 7-8-0 with the application form,

(*ii*) Rs. 75 immediately on receipt of an admission certificate from the Federal Public Service Commission.

(Only Treasury Receipts for these amounts will be accepted by the Federal Public Service Commission. The Commission cannot accept fees in cash or postal orders or cheques.)

B. To the Medical Board—

Rs. 16 before examination by a Medical Board in the case of successful candidates.

No claim for a refund of these fees will be entertained, nor can they be held in reserve for subsequent examinations or selections.

APPENDIX V.

General conditions of Service prescribed for Probationers in the Telegraph Engineering Service, class I.

1. *Probationers.*—Selected candidates will be appointed as probationers for training in the Department for two years. They will receive pay of Rs. 250 a month for the first year. On satisfactory conclusion of the first year's training and after passing the prescribed departmental tests they will receive Rs. 275 for the second year. Those who make satisfactory progress during the second year's training and pass certain prescribed departmental tests will be appointed as Assistant Divisional Engineers on a scale of Rs. 350—25—450,2—500. These conditions of service are subject to revision according to the requirements of the service. Candidates will not be entitled to any compensation if they are adversely affected by any changes in the conditions of service which may be introduced later on.

2. *Provident Fund.*—Officers entering the Telegraph Engineering Service, class I will be eligible to join the General Provident Fund and will be governed by the rules relgulating that Fund.

S. N. ROY,

Secy. to the Govt. of India.

the competitive examination at which he desires to compete.*

9. (*i*) † A candidate who is in the permanent service of the Government shall apply to the Commission for admission to the examination through the Head of his Office, who shall forward his application to the Commission through the Government concerned unless he refuses his consent to the application.

(*ii*) A candidate who is not in Government service, or is employed in Government service only in a temporary capacity at the time that he submits his application, shall apply to the Commission through the proper authority of the area in which his parents reside at the time of submitting his application, or have resided for a period of not less than three years, or in which the candidate has himself resided, otherwise than as a student, for a like period. A Government servant who is employed in a temporary capacity should however, before submitting his application, obtain in writing the permission of the Head of the Office or Department in which he is employed and attach it to the application.

(*iii*) The proper authority for a Governor's Province shall be the Provincial Government of that Province ; for Coorg, Delhi, Ajmer-Merwara, British Baluchistan or Andaman and Nicobar Islands, the Chief Commissioner ; and for a State in India the Political Officer or Agent who must be addressed through the Government of the State.

(*iv*) No candidate may make more than one application in respect of any one occasion on which an examination is held.

10. A candidate must—

(*i*) have passed sections A and B of the Associate Membership examination of the Institution of Engineers (India), or any other educational qualifications recognized by that Institution as exempting from passing these sections, *vide* Appendix I ; or

(*ii*) have obtained an engineering degree of one of the Universities mentioned in Appendix II under the conditions prescribed in that Appendix ; or

(*iii*) have passed the Associateship Examination of the City and Guilds Institute (Imperial College of Science and Technology, South Kensington) in Civil Engineering ; or

(*iv*) have passed the Associate Examination of the Bengal Engineering College in Mechanical Engineering.

Provided that in exceptional cases the Commission may on the recommendation of the Central Government or a Provincial Government treat as a qualified candidate, a candidate who, though he has not all or any of the qualifications prescribed in this rule, has passed examinations conducted by other institutions of a standard which in the opinion of the Commission justifies his admission to the examination.

11. No candidate shall be admitted to the competitive examination unless he holds a certificate of acceptance for admission granted by the Federal Public Service Commission.

The decision of the Federal Public Service Commission as to the eligibility or otherwise of a candidate for admission to the competitive examination shall be final.

12. Competitive examinations shall be conducted in accordance with the regulations contained in Schedule I, and such fees will be charged to candidates as are prescribed in those regulations. The maximum number of candidates to be admitted to the examination may, in the discretion of the Governor General in Council, be limited to such number as the Governor General in Council may decide. If a limit is imposed and the number of candidates exceeds that limit, the Federal Public Service Commission shall select from among the applicants those who shall be admitted to the examination.

13. Appointments made by competitive examination will be apportioned between the various communities in India in accordance with the provisions of the Government of India (Home Department) Resolution No. F. 14|17-B.'33-Ests., dated the 4th July 1934, and the supplementary instructions connected therewith.

14. The selected candidates shall be appointed as Assistant Executive Engineers on probation for two years. Their pay shall commence from the date of appointment under these rules and their service for seniority, increments, leave and pension shall count from the same date. In the event of more than one candidate being appointed, their seniority *inter se* shall be determined according to their position in the competitive examination.

15. On the completion of the period of probation, the Assistant Executive Engineers shall, if considered fit for permanent appointment, be confirmed in their appointments.

16. The Governor General in Council may extend the period of two years specified in rule 14.

17. If on the expiration of the period of probation referred to in rule 14 or of any extension thereof under rule 16, as the case may be, the Governor General in Council is of opinion that an Assistant Executive Engineer is not fit for permanent employment, or if at any time during such period of probation or extension he is satisfied that an Assistant Executive Engineer

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* These age-limits apply whether or not the candidate is already in Government service.

† The submission of applications by persons in Government service is further governed by the Government Servants' Applications for Posts (Central Services) (Railway Services) Rules (published with the Government of India, Home Department Notification No. E.-34-R. R. I., dated the 7th June 1934, Railway Department (Railway Board) No. F. 510/31-Ests., dated the 22nd January 1935, as amended from time to time), and the corresponding rules made by Provincial Governments.

DEPARTMENT OF LABOUR.

NOTIFICATION.

Simla, the 18th May 1940.

No. E.-22.—The Central Engineering Service (Class I) Recruitment Rules, as modified up-to-date, are published below for general information :—

PART I.

General.

1. These Rules may be called the " Central Engineering Service (Class I) Recruitment Rules ".

2. In these Rules, unless there is anything repugnant in the subject or context " The Service " means the Central Engineering Service (Class I).

PART II.

Recruitment.

3. Recruitment to the Service shall be made by any of the following methods :—

(1) By competitive examination in India in accordance with Part III of these Rules.

(2) By direct appointment in accordance with Part IV of these Rules of persons selected in India otherwise than by competitive examination.

(3) By promotion in accordance with Part V of these Rules.

(4) By transfer or appointment in accordance with Part VI of these Rules of an officer in Government service in India.

4. (1) All appointments to the Service or to posts borne upon the cadre of the Service shall be made by the Governor General in Council.

(2) No appointment shall be made to the Service or to any post borne upon the cadre of the Service by any method not specified in Rule 3.

(3) Subject to the provisions of sub-rule (2), the method or methods of recruitment to be employed for the purpose of filling any particular vacancies in the Service or such vacancies therein as may be required to be filled during any particular period and the number of candidates to be recruited by each method shall be determined by the Governor General in Council.

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PART III.

Appointment by competitive examination in India.

5. A candidate must be either—

(*i*) a British subject whose father (if alive) is a British subject or a subject of a State in India or (if dead) was at the time of his death either a British subject or a subject of a State in India, or a person in the permanent service of the Crown, or a person who had retired from that service ; or

*(*ii*) a ruler or a subject of a State in India, or a native of a tribal area or territory adjacent to India, in respect of whom a declaration has been made under section 262 (1) of the Government of India Act, 1935.

Provided that in the case of a British subject the requirements of this rule may be waived by the Governor General in Council if he is satisfied that their observance would occasion exceptional hardship, and the candidate is so closely connected by ancestry or upbringing with His Majesty's dominions as to justify special treatment.

6. A candidate must be in good mental and bodily health and free from any physical defect likely to interfere with the efficient performance of the duties of a member of the Service, and a candidate who is found after examination by a Medical Board not to satisfy these requirements will not be appointed. Only those candidates who are likely to be appointed will be physically examined.†

7. A candidate must satisfy the Federal Public Service Commission that his character is such as to qualify him for employment in the Service.

8. A candidate must have attained the age of 20 and not have attained the age of 25 on the first day of August next preceding the date of

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*A candidate to whom Rule 5 (*ii*) applies should apply to the local Political officer for the issue of the necessary declaration.

†In order to prevent disappointment candidates are advised to have themselves examined by a medical practitioner, preferably a Civil Surgeon, before applying for admission to the examination. Particulars of the nature of the medical test to which candidates will be submitted before appointment and of the standards required can be had from the Commission.

will not be fit for permanent appointment on the expiration of such period or extension, he may discharge the Assistant Executive Engineer or pass such order as he thinks fit.

PART IV.

Appointment by selection in India otherwise than by competitive examination.

18. The Governor General in Council may call on the Federal Public Service Commission to recommend and arrange in order of preference such number of candidates as he may direct to be selected with regard to the community to which they belong or to such other considerations as he may prescribe.

19. The recommendation shall be made from the list of candidates who have sat at the last preceding competitive examination held in India for the Service or for the Indian Railway Service of Engineers, and have attained a qualifying standard, and the candidates so recommended must satisfy the Federal Public Service Commission that they are in all respects suitable for employment in the Service.

20. Rules 14, 15, 16 and 17 shall apply to candidates appointed under rules 18 and 19.

20A. (*i*) The Governor General in Council may also, in special cases, select for appointment to the Service any person who is serving temporarily as an engineer or subordinate in the Central Public Works Department or temporarily as an engineer under a Provincial Government.

(*ii*) Such person must be one who, but for age, would be qualified for admission to the competitive examination under Part III of these rules, must not exceed 35 years of age at the time of appointment to the Service, must have rendered at least three years service in a temporary capacity and must satisfy the Federal Public Service Commission that he is in every way suitable for appointment to the Service :

Provided that it shall not be necessary to consult the Federal Public Service Commission in the case of any person if the Commission were consulted in connection with his temporary appointment.

PART V.

Appointment by Promotion.

21. Where recruitment is to be made by promotion, it shall be made after consultation with the Federal Public Service Commission.

PART VI.

Appointment by transfer of an officer in Government service in India.

22. The Governor General in Council may, in special cases and after consulting the Federal Public Service Commission, transfer an officer in Government service in India to the Service.

Provided that an officer of the Indian Service of Engineers or of the Royal Engineers may be appointed to a post borne upon the cadre of the Service without consultation with the Federal Public Service Commission.

SCHEDULE I.

1. Competitive examinations for recruitment to the Service shall be held in India at such time and in such place or places and in such manner as the Governor General in Council shall direct.

2. Candidates desiring to be admitted to the competitive examination shall apply to the Federal Public Service Commission before such date as the latter may notify.

3. No recommendations except those invited in the form of application will be taken into consideration. Any attempt on the part of a candidate to obtain support for his application by other means may disqualify him for selection.

4. Candidates must pay the following fees :—

A. To the Federal Public Service Commission—

(*i*) Rs. 7-8-0 with the application form.

(*ii*) Rs. 75 immediately on receipt of an admission certificate from the Federal Public Service Commission.

(Only Treasury Receipts for these amounts will be accepted by the Federal Public Service Commission. The Commission cannot accept fees in cash or postal orders or cheques.)

B. To the Medical Board—

Rs. 16 before examination by a Medical Board in the case of successful candidates.

No claim for a refund of these fees will be entertained, nor can they be held in reserve for subsequent examinations or selections.

5. The standard and syllabus of the examination shall be determined by the Federal Public Service Commission and the Commission shall, if they think it desirable, determine what shall be the qualifying marks in all or any of the subjects of examinations.

6. The examination will include the following subjects each of which will carry the number of marks shown against it :—

(*a*) *Compulsory*—

	Marks.
(1) English (including Essay and Précis Writing)	100
(2) General Knowledge	200
(3) Applied Mathematics ..	100
(4) Applied Mechanics (including Strength of Materials and Theory of Structures) ..	100
(5) Surveying	100
(6) *Viva Voce*	200

(*b*) *Optional*—

Not more than two of the following subjects :—

	Marks.
(1) Physics (including Electricity and Magnetism)	100
(2) Prime Movers	100
(3) Hydraulics and Hydraulic machines	100

	Marks.
(4) Construction	100
(*i*) Building materials,	
(*ii*) Design of structures,	
(*iii*) General principles governing the design of railways, roads, harbours and other works.	
(5) Sanitary Engineering and Water Supply	100
(6) Electrical Engineering ..	100

7. A candidate must produce a certificate that he has undergone satisfactory training in Surveying, including practical Surveying, for a period of at least one year in a college or institution recognised by the Commission for the purpose of admission to the competitive examination for the Service. The certificate must be signed by the Principal of, or the head of the department of Surveying in, the college or institution.

For this purpose the Commission will ordinarily accept a certificate from any college or institution mentioned in rule 10 of the foregoing Rules or in Appendices I and II, or from any college which is affiliated to any University mentioned in the same Rule and Appendices. The Commission, however, reserve to themselves the power not to accept any certificate if they are satisfied that the practical training referred to therein falls short of the requirements of the Service, and their decision in the matter will be final.

8. From the marks assigned to candidates in each subject such deduction will be made as the Federal Public Service Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

9. If a candidate's handwriting is not easily legible a deduction will be made on this account from the total marks otherwise accruing to him.

10. Credit will be given for good English, including orderly, effective and exact expression combined with due economy of words, in all the subjects of the examination and not only in the subjects which are specially devoted to English.

SCHEDULE II.

Brief particulars regarding the Central Engineering Service, Class I.

1. Persons recruited to the Central Engineering, Class I, shall be on probation for a period of at least two years, and they will receive a pay of Rs. 250 a month for the first year and Rs. 275 a month for the second year. On completion of the probationary period, if they have passed the prescribed departmental examinations and are considered fit for permanent appointment, they will be confirmed as Assistant Executive Engineers on a scale of Rs. 350—25—400—E. B.—450½—500.

2. The Central Engineering Service, Class I, comprises a number of superior posts as follows—

	Rs.
I. Executive Engineers, Grade III	750
,, ,, ,, II	850
,, ,, ,, I	950

NOTE.—The number of posts of Executive Engineer will be allotted to each of the three grades in the proportions noted below—

Grade III—50 per cent.
,, II—30 ,,
,, I—20 ,,

	Rs.
II. Administrative (selection) posts—	
Superintending Engineers	1,400
Chief Engineer	2,000

3. *Provident Fund.*—Officers entering the Central Engineering Service, Class I, will be eligible to join the General Provident Fund and will be governed by the rules regulating that Fund.

APPENDIX I.

List of Examinations recognised by the Institution of Engineers (India) as exempting from sections "A" and "B" of the Associate Membership Examination.

Institution of Civil Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Mechanical Engineers.	Sections A and B of the Associate Membership Examination.
Institution of Electrical Engineers.	The Graduateship Examination.
Oxford	B.A. with Honours in Engineering Science, Final Honours School.
Cambridge	B.A. (Honours) Mechanical Sciences Tripos.
St. Andrews ..	B.Sc. in Engineering.
Glasgow	B.Sc. in Engineering.
Edinburgh	B.Sc. in Engineering.
Dublin	B.A.I. (Ordinary, or with Honours in Engineering).
McGill University (Montreal).	B.Sc. in "Civil" or "Mechanical" or "Electrical" or "Metallurgical" or "Mining" Engineering. (Honours or Ordinary Degree.
Durham	B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering, or in "Naval Architecture". (Honours or Ordinary Degree.)
London	B.Sc. in (External and Internal Degree) Engineering (not including the B.Sc. Engineering (Mining) or the B.Sc. in Engineering (Metallurgy). (Honours or Ordinary Degree.)
Victoria University (Manchester).	B.Sc. Tech. (Ordinary Course Division I) in Electrical Engineering.
	B.Sc. Tech. (Ordinary Course Division II) in Electrical Engineering.
	B.Sc. Tech. (Higher Course Honours Division or Ordinary Course Division I) in Municipal Engineering.
	B.Sc. Tech. (Ordinary Course Division I) in Mechanical Engineering.
	B.Sc. in Engineering (Honours Degree; or Ordinary Degree from 1925 onwards).
	B.Sc. Tech. in "Mechanical" or "Electrical" Engineering. (Honours Division in the Final Examination.)

Birmingham	.. B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering' (Honours or Ordinary Degree.)
Liverpool ..	.. B.Eng. in "Civil" or "Mechanical" or "Marine" or "Electrical" Engineering, or "Naval Architecture". (Honours or Ordinary Degree.)
Leeds .	.. B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours or Ordinary Degree).
Sheffield ..	.. B.Eng. in "Civil," or "Mechanical" or "Electrical" Engineering. (Honours Degree or Ordinary Degree with a First Class in the Final Examination). A first class in the Final Examination will not be required in the cases of degrees obtained in or after June 1930.
Bristol ..	.. B.Sc., in "Civil" or "Mechanical" or "Electrical" Engineering. (Honours or Ordinary Degree.)
Wales ..	.. B.Sc. in "Civil" or "Mechanical" or "Electrical" Engineering.
National University of Ireland.	B.E.
Queen's University (Belfast).	B.Sc. in Engineering.
Sydney	B.E in "Civil" or in "Mechanical" and "Electrical" Engineering.
Melbourne ..	B.C.E., Mech.E. or B.E.E.
New Zealand ..	B.E. in "Civil" or "Mechanical" or "Electrical" Engineering.
Adelaide	B.E. in "Civil", "Mechanical" or "Electrical" Engineering.
Queensland ..	B.E. in "Civil" or in "Mechanical" and "Electrical" Engineering.
Western Australia ..	B.E.
South Africa ..	B.Sc. in Engineering (until 1921).
Cape Town ..	B.Sc. in Engineering.
Witwatersrands ..	B.Sc. in "Civil" or "Mechanical" and "Electrical" Engineering.
Calcutta	B.E. Examination in Civil or Mechanical or Electrical Engineering.
Bombay	B.E. Examination.
Madras	B.E. Examination.
Benares Hindu University.	B.Sc. Examination in Engineering.
Patna	B.C.E.
Rangoon	B.Sc. in Engineering (from March 1932).
Mysore	B.E. in Civil, Mechanical or Electrical Engineering.
Punjab	B.Sc. in Engineering.

Diplomas in Engineering :—

City and Guilds (Engineering) College, Kensington.

University College, London.

King's College, London.

City and Guilds of London Institute, Technical College. Finsbury—Diploma or Higher Certificate (three years' course) if taken by Matriculated Students or Students who have passed the Institution Studentship Examination or its recognised equivalent.

Royal Technical College, Glassgow—Final Diploma Examination in Mechanical or Electrical Engineering provided an approved Matriculation Examination has been passed before beginning the course.

Thomason Civil Engineering College, Roorkee—Assistant Engineer's Certificate.

Indian Institute of Science, Bangalore—Certificate in Electrical Technology or in Electrical Communication Engineering.

Manchester—Certificate in Technology, Mechanical or Electrical Engineering.

Punjab College of Engineering and Technology (formerly Maclagan Engineering College), Moghalpura—

"A" Class Diploma in the first division (65 per cent. or more marks) and in the Honours Division (80 per cent. or more marks) in (*i*) Mechanical Engineering, and (*ii*) Electrical Engineering from 1935.

Heriot-Watt College, Edinburgh : Associateship in Electrical Engineering.

Naval Officers :—

Examination which qualifies as Lieutenant (E).

Royal Naval College, Greenwich :—

Professional Certificate for Constructors.

APPENDIX II.

List of University degrees which will be recognized for admission to the examination.

Cambridge.—Ordinary degree B.A. in Engineering, provided the graduate has passed in the principal subjects, Engineering I, Engineering II and Engineering III.

Glasgow.—B.Sc. in Naval Architecture (Honours or Ordinary degree).

Durham.—B.Sc. in Marine Engineering.

London.—B.Sc. Ordinary or with Honours [not including the B.Sc. in Engineering (Mining) or the B.Sc. in Engineering (Metallurgy)].

Victoria University (Manchester).—B.Sc. in Engineering (Honours degree or Ordinary degree obtained during 1920-24).

Aberdeen.—B.Sc. in Engineering (Honours or Ordinary degree).

NOTE.—The above degrees will be accepted only if taken after three years' study and the passing of the regular examinations in the several Universities. The conditions as to three years' study will not, however, apply to Indians who, having taken an Indian degree, which exempts them from part of the University course, shall have taken one of the above degrees in less than three years in accordance with the regulations of the University concerned.

M. S. A. HYDARI,
Secy. to the Govt. of India.

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FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Instructions to candidates regarding the filling up and submission of applications for admission to the Engineering Services Examination, 1940.

(*a*) Copies of the Notice of, and the Rules and the application form for, the Examination are sent herewith. Candidates should consult them to see if they are eligible, before filling up the Application form, or paying the application fee into a treasury. The conditions prescribed cannot be relaxed. Candidates who are already in Government Service should obtain the permission of the Head of their Departments to apply for admission to the examination.

(*b*) The Application form should be filled up in the candidate's own handwriting and submitted to the Collector* or Deputy Commissioner or, in the case of a candidate from a State in India, to the Political Officer or Agent through the Durbar. No application received by the Collector,* Deputy Commissioner, Political Officer, or Agent after the 8th July 1940 will be accepted.

NOTE.—Candidates are *advised* to appear personally before the Officer to whom this form is submitted but if they are specifically asked to appear they *must* do so, so that he may be able to verify the entries in the application.

(*c*) If a candidate sends his application by post and desires an acknowledgment, he must send the application "Registered acknowledgment due". No applications will be otherwise acknowledged.

(*d*) A candidate who is found to have knowingly furnished any particulars which are false or to have suppressed material information, will be disqualified and, if appointed, will be liable to dismissal.

(*e*) The following documents must be sent in with the application. Candidates are warned that if the application is incompletely or wrongly filled up or is not accompanied by any of these documents or by a reasonable explanation of its absence, it will be summarily rejected and that no appeal against its rejection will be entertained.

(1) *A treasury receipt for Rs. 7-8-0.*—The amount should be deposited in the nearest Government Treasury, or in a branch of the Imperial Bank of India, or in a State Treasury authorised to transact business on behalf of Government (Amounts deposited at Bombay, Calcutta, Delhi, Madras or Rangoon should be deposited in the Reserve Bank of India instead of in the Imperial Bank of India). The Treasury or Bank should be asked to credit it to the account head "XXXVI—Miscellaneous Department, Examination fees, Receipts of the Federal Public Service Commission". CANDIDATES MUST SEE THAT THEY ARE ELIGIBLE AND MUST DECIDE DEFINITELY TO APPLY BEFORE DEPOSITING THIS FEE IN THE TREASURY. THE FEE WILL NOT BE RETURNED IN ANY CIRCUMSTANCES WHATEVER. NOR WILL IT BE HELD IN RESERVE FOR SUBSEQUENT EXAMINATIONS OR SELECTIONS. The name of the examination and of the Treasury at which the fee is deposited should be clearly entered in the Treasury Receipt. The treasury receipt should be on the blue form pertaining to Central Government transactions and should be obtained from the treasury at which the fee is deposited. If, however, the blue form is not available in the Treasury the ordinary form hitherto employed should be used.

NOTE 1.—Candidates who are in the United Kingdom at the time of submitting their applications should deposit the amount of their application fee (the equivalent of Rs. 7-8-0) in the office of the High Commissioner for India, London, and forward the receipt from that office.

NOTE 2.—Cash or postal orders or cheques will not be accepted by the Federal Public Service Commission.

*In the case of Calcutta, the Commissioner of Police.

(2) *Evidence of age.*—Only an extract from the Register of Matriculates or a Matriculation Certificate in original or a certificate equivalent thereto [*see* Note (1) below] in original will be accepted and this must be sent with the application. If the Matriculation or equivalent certificate gives the age of the candidate or the date of his birth by the year and month only *and if this by itself is insufficient to establish that the date of birth falls within the prescribed limits*, then the candidate must submit, in addition to the Matriculation or equivalent certificate, a certificate from the Headmaster of the High School which he first attended, showing his exact age on the date of admission. Any candidate, who omits to send such a certificate, does so at his own risk and renders himself liable to be disqualified.

An Anglo-Indian, or a Domiciled European or an Indian Christian, if his Matriculation or equivalent certificate does not show the exact date of his birth, must send his baptismal or birth registration certificate *in original in addition to his Matriculation or equivaent certificate.*

NOTE 1.—By "equivalent certificate" is meant a certificate of an examination recognised by an Indian University or Board of Intermediate or Secondary Education as equivalent to Matriculation.

A Transfer certificate from a school or a college is not an "equivalent certificate" and will not be accepted as evidence of age.

NOTE 2.—The original and a copy of each of the above mentioned certificates must be submitted with the application. A candidate who holds a completed Secondary School Leaving Certificate may submit with the original a copy of only the page containing entries relating to age.

NOTE 3.—If a candidate claims that the correct date of his birth is other than that recorded in his Matriculation certificate or a certificate equivalent thereto, he must send direct to the Federal Public Service Commission all the evidence on which he bases his claim, as soon as he has submitted his application. He should also explain how his age was wrongly recorded and must state whether he has made any attempts to have the date corrected and the results of such attempts. The fact that a candidate claims a different date of birth from that shown in his Matriculation or equivalent certificate in no way absolves him from the obligation to submit that certificate, which is required in all cases.

(3) *A certificate of character in original and also a copy thereof,* from the chief Officer in charge of discipline in the educational institution which the candidate is attending or, in the case of those who have finished their education, which he last attended.

This certificate should be signed by the Principal of an affiliated college, the Vice-Chancellor, Pro Vice-Chancellor, or Provost or Proctor or Dean of a faculty if in general charge of discipline, in a non-affiliating University, or the Headmaster (or Principal, if there is one) of a school.

(4) A certificate, in original, with a copy thereof, showing that he has one of the educational qualifications prescribed in the Rules. A diploma or a formal "provisional certificate" issued in accordance with the practice in the particular University concerned may be submitted.

(5) A certificate in original, showing that the candidate has undergone satisfactory training in Surveying, including practical Surveying, for a period of at least one year (see paragraph 2 of Appendix III to the Indian Railway Service of Engineers Recruitment Rules or paragraph 7 of Schedule I to the Central Engineering Service, Class I, Recruitment Rules).

NOTE 1.—The certificate in Clause (*e*) (5) is required *only* from those candidates who compete for the Indian Railway Service of Engineers or for the Central Engineering Service, Class I. It must be in the prescribed form, a copy of which is forwarded herewith.

NOTE 2.—The originals of the certificates forwarded in accordance with paragraph (*e*) (2), (*e*) (3) and (*e*) (4) will be returned when the result of the application is communicated but will not be returned if copies (where asked for) have not been submitted.

NOTE 3.—If the candidate has already submitted the certificates required in (*e*) (2), (*e*) (3) and (*e*) (4) above in connection with another examination conducted by the Federal Public Service Commission and if they have not yet been returned to him he should mention the fact when submitting his application, and if possible enclose a copy of each certificate. If the certificates are not with the Commission, they should be sent with the application, irrespective of whether the candidate appeared at a previous examination conducted by the Commission or not. If any certificate cannot be submitted with the application, a reasonable explanation of its absence must be given in the application.

(*f*) A candidate for whom a declaration under [Section 262 of the Government of India Act, 1935, is necessary should *immediately on receipt of the Application Form* take steps to obtain the declaration. He will not be appointed unless he has obtained the declaration, whether or not he has already obtained a declaration under section 96A of the Government of India Act, 1919.

(*g*) *The fact that an application form has been supplied, on whatever date, will not be accepted as an excuse for the late submission of an application or as evidence of the receiver's eligibility for admission to the examination.*

(*h*) Every candidate for admission to an examination conducted by the Federal Public Service Commission is informed at the earliest possible date of the result of his application. It is not possible for them, however, to say when that result will be communicated, nor can they undertake to keep candidates informed of the progress of their applications.

(*i*) All communications in respect of an application should state the name of the examination and the candidate's address as mentioned in the application form and should be addressed to " The Secretary, Federal Public Service Commission, Delhi ", otherwise such communications will not be attended to.

(*j*) Candidates must make arrangements to see that communications addressed to them at the addresses stated in their applications are redirected, if necessary. Also, any change of address should be communicated *at once* to the " Collector or Deputy Commissioner ", or " Political Officer or Agent ", to whom the application was submitted, and to the Secretary of the Federal Public Service Commission. Although the Federal Public Service Commission make every effort to take account of changes in candidates' addresses, they cannot accept any responsibility in the matter.

All returnable certificates or papers will be returned when the result of his application is communicated to the candidate.

(*k*) Only successful candidates will be medically examined. Candidates are recommended to consult a Civil Surgeon as to their physical fitness before entering for the examination. A copy of the Regulations for the physical examination of candidates is sent herewith. These regulations are published for the convenience of candidates and in order to enable them to ascertain the probability of their coming up to the required physical standard, but they are not intended to restrict the discretion of medical Examiners in any way.

NOTE.—Copies of the pamphlets containing papers, etc., relating to previous examinations can be had from the Manager of Publications, Civil Lines, Delhi, provided they are in stock and are available for sale.

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940

[To be filled up by a candidate in his own handwriting and presented to the author mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full .	
2. Postal address in full . . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	
3. Exact date of birth	
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) (*b*)
5. Are you a . . {*British subject ? . . . Subject of an Indian State ? . *To this and the next question answer Yes or No and cancel the words which are not applicable.	
6. Is (or was) your father . {a British subject ? . a subject of an Indian State ?	
7. What is your religion ?	
8. State your {(*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*)
{(*b*) Cast or sect . . .	(*b*)
{(*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*)
9. Your father's name and place of birth . . .	
10. Did your father ever change his nationality ? If so, give particulars	
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	

12. Your father's postal address (if dead, give last address), profession and status . . .	
13. What games did you play in School and College ? .	
14. What languages (including Indian languages) can you read or speak ? Give particulars . .	

Read only.	Read and speak.

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.	
18. Have you had any special preparation for this examination ? If so, give particulars.	
19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . .	
20. (*a*) Are you free from pecuniary embarrassments ? (*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars	(*a*) (*b*)
21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission ? If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)	

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. / Whether you were called for interview.	Your Roll number.	Rank.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission ? If the answer be " yes ", give the name of the examination or the examinations.	

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* 1. Physics . . . . . . 2. Prime Movers . . . . . . 3. Hydraulics and Hydraulic Machines . . 4. Construction . . . . . . 5. Sanitary Engineering and Water Supply . 6. Electrical Engineering . . . (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering . 2. Applied Mechanics . . . . . . 3. Physics . . . . . . 4. Construction . . . . . . 5. Surveying . . . . . . 6. Prime Movers . . . . . . 7. Hydraulics and Hydraulic Machines . . 8. Sanitary Engineering and Water Supply .	
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 ..... 2 ..... 3 ..... 4 .....

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

(*a*) British subject domiciled in India.

(*b*) Ruler or subject of a State in India.

(*c*) British subject *not* domiciled in India.

(*d*) Native of a tribal area or territory adjacent to India.

Signature.

Date.

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh ;

Sehjadhari Sikh and have never been a Keshadhari Sikh ;

and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A).

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature———————————

Designation———————————

Date——————— Department———————

(B).

Certified that Mr.....who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature ———————————

Designation ———————————

Date——————— Department/Office———————

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(1988 45)

CERTIFICATE OF PRACTICAL TRAINING IN SURVEYING.

Certified that Mr.————————————————who has been a student in this College/Institution has undergone a full practical course of training in Surveying for a period of ————————————in this College/Institution, and that he is sufficiently proficient in practical levelling and the use of the theodolite to be able to carry out trigonometrical surveys and to set out curves, simple and compound (including transition curves).

2. Certified also that this College is affiliated to the University of————————

Signature

Designation

Name of College or Institution } .....

Where situated.....

Date ....

SYLLABUS OF THE EXAMINATION HELD BY THE FEDERAL PUBLIC SERVICE COMMISSION (INDIA) FOR RECRUITMENT TO ENGINEERING SERVICES.

NOTE.—There will be no practical examination in any of the subjects.

Applied Mathematics.

Statics.—Vectors. Notion of force. Gravitational or Engineer's unit of force. Various kinds of forces. Friction. Composition and resolution of concurrent forces. Moments. Parallel forces and centres of gravity. Couples. Conditions of equilibrium of noncurrent coplanar forces. Funicular Polygon.

Kinematics.—Units of space and time. Rectilinear motion ; motion of a projectile ; angular motion ; relative motion ; simple harmonic motion.

Kinetics.—Newton's Laws. Absolute system of units. Linear momentum. Impact of elastic bodies. Impulse and impulsive forces. Angular momentum ; moments of inertia and radii of gyration ; impulsive torque. Centrifugal forces, Conical pendulum. Motion of the centre of mass. Cant on railway curves and banking of road-tracks. Hoop stress and stress in the rim of a fly wheel.

Work, power, kinetic and potential energy. Principle of energy. Kinetic energy due to rotation. Work done by a couple. Principle of Virtual work. Simple machines, mechanical advantage, and velocity ratio. Stable and unstable equilibrium. Deflection in a framed structure. Oscillations. Simple and Compound pendulum. Units and dimensions.

Hydrostatics.—Fluid pressure, its transmission, and measurements ; density ; specific gravity ; metric system of units ; resultant pressure ; centre of pressure ; equilibrium of floating bodies ; metacentre. Laws of Boyle and Charles. Mixture of gases. Nature and action of simple hydraulic machines.

Applied Mechanics.

(*a*) *Buildings.*

Consideration of materials used in the construction of roof-trusses. Steel and timber. Determination of stresses in trusses by various methods. Deadloads and wind pressure. Factors of safety and working stresses.

Design of roof-trusses. Various types of roof-trusses and roof coverings ; collar beam and hammer beam trusses.

Use of Euler's, Gordon's, Rankine's, Fidler's, Johnson's, and straight line formulæ in the design of struts. Buckling factor of struts ; curves showing comparative strength of struts obtained by various formulæ. Choice of size of sections. Finish of steel work. Joints. Design of end-bearings ; methods of fixing and supporting ends.

Application of circle and ellipse of stress and Clapeyron's theorem to design of structures.

Cast Iron and Steel Columns.—Flange and web connections to steel columns ; caps bases ; transverse bracing of columns.

Foundations.—Safe pressures ; foundations for columns. Slab foundations ; cantilever foundations ; Grillage foundations. Wells. Piles.

Retaining Walls and earth-pressures.—Rankin's theory. Wedge theory, Winker's and Bligh's graphical constructions, with corrections. Design of various types of retaining walls in masonry.

Tall Masonry and steel Chimneys.—Theory and design.

Design of steel and masonry reservoirs : with considerations of wind-pressures.

Deflection of framed structures and determination of stresses, etc., in redundant frames.

Influence diagrams for bending moment and shear for uniformly distributed and irregular loads on trusses, built-in beams, and three-pinned, parabolic, semi-elliptic and semicircular arches.

General principles of dome design.

Principles of Buildings Design ; consideration of loads on buildings. Steel-Works, girders, etc., for buildings.

(*b*) *Bridges.*

Design of superstructure. Determination by graphical and analytical methods of bending moment due to moving loads. Wind-pressures.

Design of masonry bridges and culverts.

Plate-web girders. Analysis of stresses.

Warren and lattice girders.

Three-pinned arches ; doubly pinned and rigid arches.

General considerations on the design of suspension, cantilever, and tabuler bridges.

Steel-arched bridges.

Swing bridges.

(*c*) *Reinforced Concrete.*

Shear, bond and diagonal tension, its nature, evaluation and location of reinforcement.

Design of simple and doubly reinforced beams and continuous beam.

Theory and design of reinforced concrete columns and piles.

Design of slab foundations.

Design of simple cantilever and counterfort retaining walls.

Equivalent moments of inertia for reinforced concrete sections.

Theory of elastic deflections and outline of investigation of stresses in reinforced concrete arches.

(*d*) *General.*

Analysis of stress, analysis of strain, elastic limit and ultimate strength. Relation between the elastic constants. Launhardt-Weyrauch formula for working stresses in a structural member and determination of its cross-sectional area. Repetition of stresses. Bending moment and shearing force diagrams for dead loads. Graphical determination of stresses in frames ; effect of wind pressure ; method of sections. Stress in the cross section of a beam due to bending (M./I./f/y-E/R); compound and conjugated stresses. Rankine's theory of earth-pressure ; depth of foundations and strength of footings. Grillage foundations ; Coulomv's theory of earth-pressure ; modification due to Rebahn.

Bending moment and shearing force diagrams for life loads. Analysis of uniform and uniformly varying stress. Elastic theory of bending of beams ; bending and shear stresses in beams. Modules of section and equivalent areas. Maximum and minimum stresses in a joint due to eccentric loading. Stresses in dams and chimneys. Stability of block-work structures. Design of rivetted joints and stresses in boiler shells. Euler's theory concerning struts ; modifications due to Rankine, Gorden and others. Torsion, Combined torsion and bending deflections. Encastre beams. Continuous beams and theorem of three moments. Elastic theory of arches. Masonry arches.

Electrical Engineering.

Direct Current.—Principles of generators and motors. Types and characteristics. Starting and controlling appliances. Methods of testing of generators and motors. Operation in parallel of direct current generators. Types and general features of primary batteries. Testing of primary batteries. Types and testing of storage batteries. Method of charging. Boosters and other auxiliary appliances.

Alternating Currents.—Production of alternating currents. Frequency and wave shape. Graphic representation of current, voltage and power in A. C. Circuits. Maximum and " R. M. S. Value " of simple sine wave. Effect of resistance, inductance and capacity in A. C. Circuit. Power and power factor in A. C. circuit. Single phase and poly-phase currents. Connections of poly-phase systems. Power measurement in poly-phase curcuits. Theory of alternator and its regulation. Parallel running. Theory of transformer. Transmission of poly-phase currents. Synchronous motors and

Induction motors. Methods of starting. Efficiency and characteristics. Circle diagrams and testing of motors. Improvement of power factor. Motor converter and rotary converter and methods of starting of rotary converter. Principle of automatic voltage regulator.

Electrical Instruments and Measurements.—Principles of construction and theory of measuring instruments for direct and alternating currents. Commercial types. Calibrations of instruments. Measurement of resistances. Ohm-Meters. Types of bridges for measuring resistances. Potentio-meter. Phase and frequency meters. Synchronoscope. Types of wattmeters.

Transmission and Distribution of Electrical Energy.—Systems of supply. Economic voltage and size of conductor. Formulæ for determination of size of conductor for standard systems of distribution, the load, voltage, etc., being given. Factors influencing voltage drop in D. C. and A. C. transmission lines. Influence of power factor of the load on voltage regulation of a transmission line. Standard equipment on generator and motor control panels for different types of D. C. and A. C. generators and motors.

Physics including Electricity and Magnetism.

Heat.—The methods of calorimetry and thermometry, Vapor-pressures, critical temperature and pressure. Conduction and diffusion of heat and the determination of constants. Radiation and absorption ; laws of cooling. Theory of exchanges ; methods of measuring radiation, Laws of thermodynamics ; simple applications.

Light.—Velocity of light. Illumination ; photometry. Achromatism in lens system ; direct-vision spectroscope.

The wave theory ; simple interference phenomena, Huygens' principle, explanation of straight line propagation, reflexion, and refraction of light. Action of mirror, lenses, etc., reviewed from this standpoint. Simple diffraction phenomena, Gratings, and wave-lengths determination. Spectrum analysis ; Doppler's principle. Double refraction and polarization of light ; rotatory polarization ; simple application.

Magnetism.—Forces on a magnet in a magnetic field. Determination of axes and moment of magnet. Magnetic potential, level surfaces. Interaction of two short magnets ; determination of field strength. Magnetic shell ; its potential energy in magnetic field. Total normal induction Gauss' theorem ; number of lines of force. Magnetic induction in iron, etc. Theory of magnetism.

The magnetic field of the earth ; the elements and their variations ; the compass and its corrections.

Electricity.—Electric capacity ; specific inductive capacity, Distribution of electricity on surface of conductors ; images. Value of electric force in simple cases of distribution. The mechanical force on charged conductors ; energy of electrified systems. The dielectric medium ; dielectric displacement currents.

Wheatstone's bridge ; specific resistance ; resistance thermometers. Conductivity of electrolytes ; ionization ; migration phenomena ; accumulators. Standard cells ; the potentiometer system of measurement. Thermo electricity application of thermodynamics ; thermo-electric diagrams. Electro-magnetic induction ; coefficients of induction; induction coils. Energy of circuit carrying current when placed in a magnetic field ; mechanical force on conductors carrying current ; moving coil instruments. Lenz's law ; illustration from dynamos and motors, etc. Determination of current resistance ; E. M. F. in absolute measure. The discharge of a condenser ; electric waves. Elementary theory of the electron.

The elementary theory of the continuous current dynamo and motor, and of the alternating current dynamo. General Principles of the application of electricity to lighting power, transmission, telegraphy, etc.

Sound.—The transmission of energy through material media by wave-motion ; speed of propagation of waves of permanent type. Nature of musical sounds ; pitch ; scales. Reflection and refraction of sound ; influence of wave-length. The vibration of strings, bars, plates and gas columns, resonance. Interference and diffraction phenomena. Analysis of sound Measurement of wave-length, velocity and pitch.

Prime Movers.

Fuel Gas Plants and Boilers—

Fuel.—(*a*) Coal, wood, petroleum, gas, petrol, alcohol, etc., physical characteristics, approximate chemical composition ; heat of combustion.

(*b*) *Gas plants.*—Gas producers ; pressure and suction plants ; arrangement and Working.

(*c*) *Boilers.*—Draught ; natural forced and induced. Ordinary forms of stationary locomotive, marine, water-tube, and other type ; heating surface, firegrate area ; boiler efficiency ; superheaters ; feedwater heaters ; accessories and managements.

Theory of Heat Engines—

(*a*) Thermodynamical principles ; Carnorts cycle ; perfect heat engine ; second law.

(*b*) *Air engines.*—Stirling and other forms.

(*c*) *Internal Combustion Engines.*—Gas, oil and petrol engines with fluid pistons ; types and working ; features of cycles. Proportioning of mixtures ; efficiencies.

(*d*) *Steam.*—Thermodynamics of the generation, expansion, and condensation of steam ; heat diagrams, etc.

(*e*) Steam Engines and turbines, with special reference to modern developments.

(*f*) *Refrigerating Plant.*—Theory and general arrangement of the more common types.

(*g*) *Air Compressors.*—Theory of pneumatic working.

Generating Plants, Accessories and Details—

(*a*) General arrangements and construction of the more important types.

(*b*) Condensers, air-pumps, circulating pumps, cooling tanks, etc.

(*c*) Carburettors, and systems of ignition.

(*d*) Cylinders, pistons, cross heads, guides, connecting rods, cranks, governors fly-wheels, valves and valve gears, glands and pipes.

(*e*) *Engine-Testing.*—Consumption of steam and fuel, gas and oil ; brakes and dynamometers ; indicators and indicator diagrams.

Hydraulics and Hydraulic Machines.

Hydraulics.—Definitions relating to flow of water ; stream-line motion. Bernoulis theorem Venturimeter.

Flow of water through small and large orifices ; drowned orifices ; sudden enlargements and contractions in flow of water. Time of emptying tanks. Flood absorptive capacity of tanks.

Flow of water over notches and weirs.

Flow of water through pipes ; hydraulic gradients ; losses of head due to bends, contractions and sudden enlargements ; losses of head through siphons. Impacts at bends and thrust blocks.

Flow of water in open channels and in pipe ; Chezy, Basin, Kutters, and other formulæ and their applications ; cross sections of greatest efficiency.

Calculations of afflux and back water curve.

Gauging the flow of water in open channels ; water-meters.

Hydraulics and hydrostatics of weirs and other canal works.

Hydrokinetics ; uniform and steady flow streamline and turbulent motion. Bernoulli's theorem and its application.

Discharge through orifices and mouth pieces, and over notches and weirs. Variable heads. Laws of fluid friction. Head lost due to friction.

Hydraulic Machinery.—Impact of water on fixed and moving vanes. Turbines ; impulse and reaction. Description of different types of turbines. Determination of vaneangles. Efficiencies of turbine plant. Governing.

Pumps.—Reciprocating, centrifugal and turbine.

Construction.

(*i*) *Building Materials.*

Stones.—Selection. Characteristics. Indian and European stones. Quarrying. Blasting. Dressing stone. Implements.

Bricks and Tiles.—Classes of bricks and their distinguishing qualities. Moulding. Drying and stacking. Brick-burning. Types of Kiln, Firebricks. Terracotta. Tile manufacture.

Cements, Limes and Mortars.—Use of mortar Natural and artificial cements. Varieties of limes. Hydraulicity. Burning. Clamps. Kiln. Plaster. Whitewash. Distemper. Concrete. Portland cement.

Timber.—Growth of trees. Felling trees. Classification and properties of Indian and other woods. Most suitable woods for particular purposes.

Stone Masonry.—Ashlar of various sorts. Block-in-course. Bond. Dressing-stone. Rubble masonry. Safe loads. Lewis. Dowel Joggle. Cramp. Template. Scaffolding. Shears. Derrick. Gyn. Gantry.

Brick Masonry.—Types and their uses. Bond. Closers. Bedding. Moisture Scaffolding. Precautions against settlement. Racking back. Plastering. Pointing. Coping. Cornice. Blocking course. Parapet. Eaves course. Corbel. Lintel. Jamb. Reveal. Sill. Footing. Drip-course. Pise Walling. Dhajjiwalling Hollow masonry. Reinforced brick-work.

(*ii*) *Design of Structures.*

Buildings.—Design of a residential bungalow : with special reference to selection of site, construction of walls, damp-proof courses, water-supply, drainage and ventilation.

Fire-proof construction.

Reinforced brick-work design ; beams, floors, etc.

Thomson's principles of similar structures as regards their strength, stability, deflections, etc.

Bridges.—Selection of size. Determination of discharge of river by consideration of area of watershed, intensity of rainfall, and by zoning. Waterway to be provided. Depth of scour.

Design of foundation. Box ; crate ; well ; pile ; continuous masonry ; reinforced concrete slab, Piers, ordinary and abutment. Floors and curtain walls.

Reinforced Concrete —Nature, uses, properties, advantages and disadvantages of Reinforced Concrete over other types of construction. Assumption made in theory of stress in reinforced concrete beams.

Theory and design of simple beams. T-beams and slabs for different conditions of loading.

(*iii*) *General principles govering the design of Railways, Roads, Harbours and other works.*

Roads.—Formation and permanent-way. Types of roadways. Hill roads. Ruling gradients. Resistance of vehicles. Drainage. Tramways.

Railways.—Formation and permanent way. Gauges. Tractive force. Tunnelling. Light railways and mountain railways.

River Training Works.—Spurs. Groynes.

Bell Bunds. Streamline Bunds. Mattresses. Aprons.

Miscellaneous.—Piles and pile-driving ; sheet and screwpiling. Diving operations, reclamations and dredging. Retaining walls. Depth of foundation. Counterforts and buttresses. Revetments. Construction and sinking of Masonry wells. Simple masonry dams. Technical names of various parts.

Surveying.

Surveying.—Construction of Scales. Conventional signs. Use and adjustment of instruments. Theory of levelling ; simple, compound check and reciprocal levelling. Various causes of errors in levelling. Elimination of such errors. Customary limits for errors. Method of keeping various styles of field-books. Use of boning rods. Chain survey. Chain and compass survey.

Theodolite Traversing by Gale's traverse system for city and town improvement surveys. Source of errors and required precision in traversing. Traverse tables. Theory and use of the simple plane-table and tangent clinometer, with and without the magnetic compass Theory and use of the stadia method of plane tabling with levelled heights and reductions of distances and heights by sliderule. The three-point problem or plane-tabling by resection from within and without the triangle. Geometrical and trigonometrical proof of the three-point problem. The two point problem with and without the magnetic compass. Triangulation with reciprocal value ; heights of stations ; base line measurements. Finding values of position by observations to three known points. Computation by rectangular co-ordinates with convergency correction.

Contouring the triangulated areas by heights calculated from the reduced levels. Longitudinal and cross sections run with a level. The location on the map of a road, railway, canal or weir, etc. The general principles of tunnel alignment and of carrying surface meridians underground for mine-surveys. Discussion on the latest patterns of instruments.

Practical Astronomy.—Introduction to spherical trigonometry upto the solution of the spherical triangle ; and the adaptation of Napier's rules of circular parts. Definitions ; systems of celestial co-ordinates ; the reasons for sidereal, sun and mean time ; acceleration, retardation and equation of time. The Julian and Gregorian calendars ; time and the various astronomical corrections.

Finding the meridian of a place by observations to the sun or a star at upper culmination, by equal altitudes, by the sun or stars not in the meridian, and by circumpolar stars at elongation; and finding time by the sun or stars on the meridian and *ex*-meridian finding latitudes by Polaris and circum-meridional observations. Use and construction of sundials.

Railway curves and Alignments.—Theory of curves. Curves laid out with the aid of angular instruments ; with one theodolite. Curves laid out by linear measurement only. Bychords and offsets (several methods). By offsets inside the curve. Curve by ordinates from the long chord. Curve with certain given data to pass through a ruling point. Compound curves. Diversion curve. Vertical curves. Curves spiral or transition curve. Double centre method for laying out a straight line. Setting on pegs for earth work. Computation of areas of cross sections, etc.

Sanitary Engineering and Water Supply.

Water Supply. Source of Supply.—Springs ; wells ; rivers ; lakes ; choosing the supply.

Water Works.—Intakes ; settling tanks ; filters ; rates of filtration ; various types of mechanical filtration.

Reservoirs.—Impounding, storage and service reservoirs ; water towers.

Pipes.—Rising mains ; expansion joints ; osses in head ; valves, service tanks, house connections ; metres ; cisterns.

Pumping Installations.—General types of installations used in India.

Sanitary Engineering.—Water Purification ; natural waters, impurities present ; methods employed for rendering natural waters potable ; boiler waters and softening agents ; interpretation of analytical reports.

Sanitary laws; refuse removal and disposal; the chemistry of sewage; river pollution and its effects ; sewerage systems ; sewers, their construction and ventilation ; traps; house drainage ; purification of sewage ; chemical precipitation and precipitants ; liquefaction of sewage ; sewage oxidation ; irrigation and trenching ; sewage arms ; septic tanks contract beds ; the combined system ; details concerning tanks; filters and filtration distributors, etc.

Electrical Communication Engineering.

(A)—*Telegraphy.*

1. *Morse Telegraph Apparatus.*—Description of Signalling keys, Sounders. Relays, Galvanometers, Balancing boxes, Switches, etc., and their use in Morse Telegraphy.

Morse Circuits.—(*a*) Arrangements of apparatus and circuit connections for Simple and Differential and Aridge Duplex working Terminal and Repeater offices. Single current and Double current working.

(*b*) General principle of Quadruplex working.

3. *Multiplex Telegraphy.*—(*a*) Principle of Multiplex Baudot printing Telegraph. Different methods of working the Baudot system. Double and quadruple working Description of principle apparatus used in Baudot Telegraphy including Retransmitters Tape Transmitters, Keyboard Perforators, etc., and their use.

(*b*) Teleprinter working. General principle of the " Stop-Start " system of working. Teleprinter and its principle of action. General knowledge of its principal parts.

4. *Testing of Lines and Cables*, and details of apparatus employed for such tests.

5. *Power arrangements* for telegraph and Telephone offices. Use of Motor Generators, Rectifiers, Charging Boards, Primary Cells and Accumulator.

6. *Elementary Principles of Construction of Telegraph Lines.*—Description of Underground and Underwater cables. How they are manufactured and laid.

(B)—*Telephony.*

1. *Manual System.*—General principles of Magnetic, Semi Central Battery, and Central Battery systems of working. Details of Exchange and Sub-office apparatus, and their circuit diagrams including Private Branch office equipments. Protective devices in Exchange and Sub-offices and at Cable and Line Terminals. Details of Party Line working with Selective ringing.

2. *Automatic Systems.*—General principles of well-known systems of Automatic Exchanges. Schematic Circuit diagrams or principal Exchange equipments. Automatic Branch Exchanges. Details of Subscribers' Apparatus for the above systems.

3. *Telephone Transmissions.*—Principle of Transposition of Telephone Circuits. Prevention of Inductive Interference on Telephone Circuits. Characteristics of Telephone Circuits. Impedance of Telephone Circuits and its measurement. Attenuation and Wave length Constants. Decibel and Neper. Mile Standard Cable. Transmission loss measurement. Wave filter. Carrier Current working. Telephone Repeater.

Thermionic Valves and their use in Telephony.

(C)—*Radio Telegraphy and Telephony.*

1. General details of Oscillatory Circuits. Natural Frequency and Wavelength Logarithmic decrement. Forced Oscillation.

Long Wave and Short Wave Radio working. Points of difference between the two systems.

Various methods of Reception and Transmission of Electric-magnetic waves. Different types of detectors and their adjuncts.

Thermionic valves as used on wireless Telegraphy and Wireless Telephony Valves as Detectors, Amplifiers, Rectifiers, Modulators and Oscillation Generators. Details of Transmitting and Receiving Circuits. Radiation of Electromagnetic Waves. Atmospheric effects. Fading.

Power plant for Wireless offices. Elementary principle of design of Aerials and Earths or Long and Short wave systems. Directional Transmission and Reception.

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GOVERNMENT OF INDIA

Regulations for the Physical Examination of candidates for appointment to the Engineering Services.

(These regulations are published for the convenience of candidates and in order to enable them to ascertain the probability of their coming up to the required physical standard. But it must be clearly und erstood that the Government of India reserve to themselves an absolute discretion to reject as unfit any candidate whom they may consider, on the report of the Medical Board, to be physically disqualified and that their discretion is in no respect limited by these Regulations.)

1. To be passed as fit for appointment a candidate must be in good mental and bodily health and free from any physical defect likely to interfere with the efficient performance of the duties of his appointment.

2. In the matter of the correlation of age, height and chest-girth of candidates of Indian (including Anglo-Indian) race, it is left to the Medical Board to use whatever correlation figures are considered most suitable as a guide in the examination of the candidates.

Note.—The following table of correlation of age, height and chest-girth is to be used as a guide in the examination of candidates of European race:—

Physical Equivalent.

Age last birthday.	Height without shoes.	Girth when fully expanded.	Chest range of expansion not less than—
		Inches.	Inches.
16	60 and under 62 inches	32½	2
	62 „ 65 „	33½	2
	65 „ 68 „	33½	2
	68 „ 72 „	34	2
	72 and upwards	34½	2
17	62 and under 65 inches	33½	2
	65 „ 68 „	34	2
	68 „ 72 „	34½	2
	72 and upwards	35	2
18	62 and under 65 inches	34	2
	65 „ 68 „	34½	2
	68 „ 72 „	35	2
	72 and upwards	35½	
19	62½ and under 65 inches	34½	2
	65 „ 68 „	34½	2
	68 „ 70 „	35	2
	70 „ 72 „	35½	2
	72 and upwards	36	2
20	62½ and under 65 inches	34½	2
	65 „ 68 „	34½	2
	68 „ 70	35	2
	70 „ 72 „	35½	2
	72 and upwards	36	2
21 and upwards.	62½ and under 65 inches	34½	2
	65 „ 68 „	35	2
	68 „ 70 „	35½	2
	70 „ 72 „	36	2
	72 and upwards	36½	2

3. The candidate's height will be measured as follows :—

He will remove his shoes and be placed against the standard with his feet together, and the weight thrown on the heels and not on the toes or outer sides of the feet. He will stand erect without rigidity, and with the heels, calves, buttocks and shoulders touching the standard ; the chin will be depressed to bring the vertex of the head level under the horizontal bar, and the height will be recorded in inches and parts of an inch to quarters. No fixed limit of height is enforced.

4. The candidate's chest will be measured as follows :—

He will be made to stand erect with his feet together, and to raise his arms over his head. The tape will be so adjusted round the chest that its upper edge touches the inferior angles of the shoulder blades behind, and its lower edge the upper part of the nipples in front. The arms will then be lowered to hang loosely by the side, and care will be taken that the shoulders are not thrown upwards or backwards so as to displace the tape. The candidate will then be directed to take a deep inspiration several times, and the maximum expansion of the chest will be carefully noted. The minimum and maximum will then be recorded in inches, 33-35, 34-36½ etc. In recording the measurements, fractions of less than ½ inch should not be noted.

5. The candidate will also be weighed and his weight recorded in pounds. Fractions of a pound should not be noted.

6. The candidate's eye-sight will be tested in accordance with the following rules. The results of each test will be recorded :—

(*i*) *General.*—The candidate's eyes will be submitted to a general examination directed to the detection of any disease or abnormality. The candidate will be rejected if he suffers from any morbid conditions of the eyes, eyelids or contiguous structures, of such a sort as to render, or to be likely at a future date to render him unfit for service.

N. B.—No candidate will be accepted for appointment whose standard of vision does not come upto the requirements specified below without the use of the contact glasses. (A contact glass or lens is defined as a glass shell, the concavity of which is in contact with the globe of the eye, a layer of liquid being interposed between the lens and the cornea. The meaning of the word " glasses " wherever used in these Regulations is to be interpreted as not covering contact glasses.)

(*ii*) *Visual Acuity.*—The candidate will be examined, with the apparatus and according to the methods prescribed by the Railway Board's Standing Advisory Committee of Medical Officers, to determine his acuity of vision, and the examination will include two tests, one for distant and the other for near vision. Each eye will be examined separately. No candidate will be accepted whose Visual Acuity falls below the following standards :—

A.—Indian Railway Service of Engineers.

	The one eye.	The other eye.
Distant vision—		
without glasses	6/12	6/18
corrected with glasses	6/6	6/9
Manifest Hypermetropia	1·5	1·5
Near vision—		
with or without glasses	0·6	0·6

B.—Central Engineering Service, Class I, and the Telegraph Engineering Service, Class I.

	The one eye.	The other eye.
Distant vision—		
without glasses	6/24	6/24
corrected with glasses	6/6	6/12
Near vision—		
with or without glasses	0·8	

(*iii*) *Colour Perception.*—(A) *Indian Railway Service of Engineers.*—The candidate will be examined for colour knowledge with the apparatus and according to the methods prescribed by the Railway Board's Standing Advisory Committee of Medical Officers. Any defect of colour perception will be a cause for rejection of the candidate.

(B) *Central Engineering Service, Class I, and the Telegraph Engineering Service, Class I.*—Inability to distinguish the principal colours will be regarded as a cause for rejection.

(*iv*) *Night Blindness.*—(*Indian Railway Service of Engineers only*).—The candidate's Night Vision will be tested, with the apparatus and according to the methods prescribed by the Railway Board's standing Advisory Committee of Medical Officers, to ascertain whether or not he suffers from night blindness. The

candidate who under the conditions of the ordinary Test for Visual Acuity has 6/6 Vision with both eyes open, with or without glasses will be rejected if, under the conditions of the Night Blindness Tests, his vision with both eyes open, with or without glasses, falls below 6/24.

(*v*) *Field of Vision.*—(A) *Indian Railway Service of Engineers.*—The fields of vision of the candidate's eyes will be examined with the apparatus and according to the methods prescribed by the Railway Board's Standing Advisory Committee of Medical Officers. Any defect will be a cause for rejection of the candidate.

(B) *Central Engineering Service, Class I, and the Telegraph Engineering Service, Class I.*—Each eye must have a full field of vision as tested by handmovements.

7. The urine (passed in the presence of the examiner) should be examined and the result recorded.

8. The following additional points should be observed :—

(*a*) that the candidate's hearing in each ear is good and that there is no sign of disease of the ear ;

(*b*) that his speech is without impediment ;

(*c*) that his teeth are in good order and that he is provided with dentures where necessary for effective mastication (well filled teeth will be considered sound) ;

(*d*) that his chest is well formed, and his chest expansion sufficient ; and that his heart and lungs are sound ; and that his blood pressurre is within normal limits ;

(*e*) that there is no evidence of any abdominal disease ;

(*f*) that he is not ruptured ;

(*g*) that he does not suffer from a severe degree of hydrocele, varicocele, varocose veins or piles ;

(*h*) that his limps, hands and feet are well formed and developed, and that there is free and perfect motion of all his joints ;

(*i*) that he does not suffer from any inveterate skin disease ;

(*j*) that there is no congenital malformation or defect ;

(*k*) that he does not bear traces of acute or chronic disease pointing to an impaired constitution ; and

(*l*) that he bears marks of efficient vaccination

When any defect is found, it must be noted the medical examiners should state their opinion as to whether or not it is likely to interfere with the efficient performance of the duties which will be required of the candidate. If the condition is remediable by operation it should be so stated.

NOTE.—Candidates are warned that there is no right of appeal from a Medical Board, special or standing, appointed to determine their fitness for the above Services. If, however, Government are satisfied on the evidence produced to them of the possibility of an error of judgment in the decision of the first Board, it is open to Government to allow an appeal to a second Board.

GIPD—M 58 FPSC—25-5-40—4,000.

For official use only.

EXAMINATION FOR RECRUITMENT TO THE ENGINEERING SERVICES IN INDIA.

Attestation Form.

Name of candidate.....

The entries on this sheet must be attested by the Collector or Deputy Commissioner, if the candidate is resident in British India, or by the Political Officer or Agent, if the candidate is resident in an Indian State. In the latter case it does not require counter-signature.

Question.	*Answer.*
1. Are you satisfied that the candidate's character is satisfactory ?	
2. Are you aware of any circumstances which in your opinion show that the candidate is unsuitable for appointment to the Service or Services for which he is an applicant ? If so, please state them.	
3. Are the candidate's family connections and their social position and the public services, if any, of his family such as to justify weight being given to them ? The public services rendered should be stated.	

4. Signature, date and designation.

(Place to be given)

Collector.

Deputy Commissioner.

Political Officer or Agent.

5. Countersignature, date and designation.

Secretary to the Government of.....

The countersignature is intended to indicate that the signatory knows of no reason to differ from the answers as signed by the District Officer. If the signatory considers that the candidate should not be admitted to the Examination, or wishes to call attention to facts not mentioned by the District Officer, he should make a special report.

GIPD—58 FPSC—25-5-40—2,000

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Examination to be held in November 1940 for recruitment to the :—
(1) *Indian Railway Service of Engineers,*
(2) *Telegraph Engineering Service, Class I, and*
(3) *Central Engineering Service, Class I.*

Memorandum for the Guidance of Officials.

1. *Programme.*—The chief dates are as follows :—

8th July 1940.—The last date for receipt of completed application forms by District Officers, Political Officers and Agents. The date by which the applications should be forwarded by the District Officers to the Provincial Government should be fixed by the latter in each case.

(The Provincial Governments are requested to issue instructions to their District Officers as to the particular Department of their Secretariat to which these applications should be forwarded.)

18th July 1940 at the latest.—Each Provincial Government and Political Officer or Agent is requested to report to the Federal Public Service Commission (by telegram if necessary) the total number of applications received. If no applications have been received, an intimation to that effect should be given by this date.

13th August 1940 at the latest.—Applications of candidates together with attestation forms should be forwarded by Provincial Governments and Political Officers or Agents so as to reach the Federal Public Service Commission by this date.

4th November 1940.—The examination begins.

2. *Verification of Application Forms.*—District Officers and Political Officers or Agents are requested to satisfy themselves as far as possible that the answers of candidates to questions in the application form are correct and to forward with the application form a copy of the attestation form filled in in respect of each candidate. It is particularly requested that the attention of the Federal Public Service Commission should be drawn to any candidates who may have undesirable political antecedents or who are otherwise considered as undesirable candidates for Government service.

Note 1.—In the case of a candidate for whom a declaration under Section 262 of the Government of India Act, 1935 is necessary the Provincial Government, Political Officers or Agents are requested to see that the necessary steps are taken to obtain it.

Note 2.—Details of fees deposited by candidates whose applications have been withheld may be supplied to the Commission along with the applications forwarded or soon after, *vide* this office letter No. F.-99-30-3., dated the 10th December, 1930.

GIPD—M 58 FPSC—25-5-40—2,000.

Appendix F G—1]

SUBJECT.....

.....

.....

Section P. P.

File No. 78 of 39

Serial No. 2.

Diary No. of letter replied to.....

No. P7809 Notification

To

General and Revenue Secretariat

( )

the *19* .

Date of issue..... 19.6.40

Signed by Dr. M.K.R.

A competition examination for admission to (1) the Indian Railway Service of Engineers (2) the Telegraph Engineering Service, class I, and (3) the Central Engineering Service, Class I, will be held in Delhi, beginning on the 4th Nov 1940. Copies of the Notice, rules, syllabus and application forms will be available at the Office of the Genl & Rev Secrt. Bangalore, during office hours.

List of enclosures.....

Copied by .....

Examined by .....

WD 03695—GPB—30,000—29-1-40

Applications from the Candidates
of the Mysore State should be sent
with the necessary documents and
a manuscript copy of the questions and
answers in the application form in addition
so as to reach this office on or before
the 6th July. 1940.

Candidate must have been born
not earlier than the 2nd August, 1915
and not later than the 1st August. 1920.
These age limits can in no case
be relaxed.

Correspondence in regard to any
difference in the date of birth as recorded
in the S.S.L.C and that claimed as correct
will have to be carried on direct by
the Candidate with the Federal Public Service Commission.

Candidate from the Mysore State should take steps
to obtain a declaration of eligibility under Sec. 262
of the Govt of India Act 1935.

B. O.

19/6
For Chief Secy to Govt

The Compiler. MS for publication in the Gazette

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

No. P2809 / PP 78-39-2

General and Revenue Secretariat,

Dated Bangalore 6th June, 193 40

NOTIFICATION.

A Competitive examination for admission to (1) the Indian Railway Service of Engineers (2) the Telegraph Engineering Service, Class I, and (3) the Central Engineering Service, Class I, will be held in Delhi, beginning on the 4th November ~~1940.~~ 1941 Copies of the Notice, rules, syllabus and application forms will be available at the office of the General and Revenue Secretariat, Bangalore, during office hours. Applications from the candidates of the Mysore State should be sent with the necessary documents and a manuscript copy of the questions and answers in the application form in addition so as to reach this office on or before the 8th July ~~1940.~~ 1941

Candidate must have been born not earlier than the 2nd August 1916 ~~1915~~ and not later than the 1st August 1921 ~~1920~~. <u>These age limits can in no case be relaxed</u>.

Correspondence in regard to any difference in the date of birth as recorded in the S.S.L.C. and that claimed as correct will have to be carried on direct by the candidate with the Federal Public Service Commission.

Candidates from the Mysore State should take steps to obtain a declaration of eligibility under Section 262 of the Government of India Act, 1935.

By order,

for Chief Secretary to Government

To

The Compiler, Mysore Gazette, for publication in the Gazette.

to-morrow.

IMMEDIATE & CONFIDENTIAL.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

No. P/188-90

Bangalore, Dated, 8th July 1940.

From

Rajasevaprasaktha
B. T. KESAVAIENGAR, Esq., B. A.,
Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Districts Magistrates of Bangalore, Mysore and Shimoga Districts

Sir,

I am directed to forward herewith copies of attestation forms and those of application forms of the marginally noted candidates for admission to the Engineering Services Examination, 1940, conducted by the Federal Public Service Commission in British India and to request that you may satisfy yourself as far as possible that the answers of candidates to questions in the application forms are correct and that the attestation forms may kindly be filled in, and returned positively before the 15th July 1940.

25th July 91

The matter should kindly be treated as immediate, and a final reply sent before the date specified above.

Messrs:

N.R. Seahadri		
C. Visveswaraiya.		
M.S. Muthanna.		Bangalore.
V. Sitapathi Rathnam.		
Paul Pothan	-	Shimoga.
L.S. Purushothama	-	Mysore.

I have the honour to be,
Sir,
Your most obedient servant,

8/7

For Chief Secretary to Government.

Col 51

9th July 1940.

Major A.E.H. Macann,
SECRETARY to THE HON'BLE THE RESIDENT in MYSORE,
Bangalore.

Engineering Services Examination - 1940.

With reference to paragraph 3 of your endorsement No.D.F.364-40/G. & A. dated 18th June 1940,.on the above subject, I am directed to state that six applications have been received in this office.

I have the honour to be,

Sir,

Your most obedient servant,

9/7

For Chief Secretary to Government.

No.C.C. 3/40-41
Encs: 3

4/35/40

OFFICE OF THE DISTRICT MAGISTRATE,
SHIMOGA DISTRICT.

Dated Shimoga.....13th July.....*1940*.

FROM

M. SESHADRI, ESQ., M.A.,
District Magistrate,
Shimoga District.

To

Rajasevaprasakta
B.T. KESAVIENGAR, ESQ., B.A.,
Chief Secretary to Govt. of Mysore,
BANGALORE.

P.S. 15/7/40

SIR,

Referring to your letter No. P. 188-90 dated the 8th instant forwarding for verification, copies of the attestation and application forms of the marginally noted candidate

Mr. Paul Pothan.

for the Engineering Services Examination, 1940, conducted by the Federal Public Service Commission in British India, I have the honour to state that I interviewed the candidate to-day. I had asked him to produce the diplomas obtained by him at the University. He appeared before me and said that he did not have with him any of the records of his academic career. It is ascertained that he is a native of Travancore. He passed the B.A. degree examination from the Maharaja's College, Trivandrum. He then joined the Mysore University and passed out of the Engineering College very recently. He has been employed for the last few months as a Works Inspector at Jog. In the absence of the records of his

academic

academic career, I have not been able to verify the answers given by him to the questions in the application form. Since he is not a local man, I am not in a position to offer any ~~remarks~~ opinion about his character and antecedents. I am therefore returning unfilled, the attestation form. I am sending herewith a copy of the report received from the District Superintendent of Police in the same connection.

The enclosures received with your letter are herewith returned

I have the honour to be,
Sir,
Your most obedient servant,

M Venkatesh

District Magistrate,
Shimoga District.

Report No. S.B. 16/40 dated 12th July 1040 from the District Superintendent of Police, Shimoga to the Deputy Commissioner, Shimoga

****

Subject: D.O. No. C.C. 3/40 dated 9-7-1940 regarding the character and antecedents of Mr. Paul Pothan residing at Jog Falls.

--

With reference to the above, I beg to state that on enquiries made it is learnt that Mr. Paul Pothan is a native of Travancore and has passed the B.A. examination of the Madras University and the B.E.. examination of the Mysore University. His character and conduct so far, as is known at Jog, are ascertained to be very good. He is now employed as a Works Inspector at Jog. It is also ascertained that one of his uncles is a Foreman in the Rolling Mills, Bhadravati and his father Mr. Pothan is an Assistant Engineer in the Travancore Service. His elder brother by name Mr. Pothan is reported to be a Supervisor in the Travancore Service. One of his cousins by name Dr. Chacko is reported to be the Principal of the Madras Engineering College.

"Copy"

Deputy Commissioner,
Shimoga District.

Appendix F G—1]

SUBJECT.....

.....

.....

Section Immediate

File No.

Serial No.

Diary No. of letter replied to.....

No. P383/Sec.4

To The D. M. Shimoga.

General and Revenue Secretariat

( )

the *19* .

Sir,

Date of issue..... 17/2/40.

I am directed to invite reference to your letter no C.C. 3/40-41 of 13th Jan. 40 returning the attestation form of Mr. Paul Pothen unfilled and to enclose herein for your reference and return the certificate of the Principal, Engineering College Bangalore, and the Principal Science College, Trivandrum, sent by the Contractor to be filled in the application form

Signed by .....

List of enclosures.....

Copied by .....

Examined by .....

WD 03695—GPB—30,000—29-1-40

It is seen therefrom that Mr. Pothen is a B.E of from the Engineering College, Bangalore and his character during his Collegiate career is reported to be good. The D.S.P. Shimoga has also reported that there is nothing adverse against the candidate.

In the above circumstances, I am to request you to kindly return the attestation form duly filled in with the Certificate enclosed very early for transmission to the Residency.

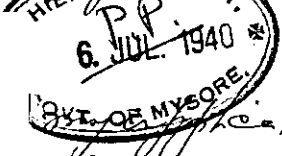
I have etc

for Chief Secretary to Govt

The Chief Secretary,
Government of Mysore.

By Regd Post

Sir,



I am enclosing herewith my application for admission to the Engineering Services Examination. Among the needed documents for enclosure the extract from the S.S.L.C. Certificate is missing and enclosed. I did not have the Certificate with me at my workshop. It is expected in a day or two & will be forwarded without delay.

I remain
Yours Most Obedient
Servant

Kolar
5.7.40

Paul Pothen

To

The Chief Secretary,

Govt Post Government of Mysore.

I am herewith enclosing an extract from the S.S.L.C. Certificate containing the date of Birth, in original & with a true Copy. Since the date given is in Malayalam Era I am giving its equivalent in A.D. I am enclosing also a certificate in original with a true Copy of the Principal's Certificate about the entry of date of Birth in the College Register.

These are to be appended to my application for admission to the Engineering Services Examination

I beg to remain, Sir.

Your most obedient Servant

B. Ladoswami

8-7-40

1160/P&G 40

Public Works Secretariat. | File No. | of 193

Serial No.

Encls 247/10.

AJ 6-7-1940

Application of Mr. N. R. Seshachi, Surveyor for the Engineering Service Examination of 1940.

Immediate

Forwarded with compliments, to the Chief Secretary to Government, for favour of kind transmission to the Federal Service Commissioner.

N. Sanjeeva Rao 3/7/40
Chief Engineer.
P. W. Dept.

CHIEF SECY. P.P. 4. JUL 1940 GOVT.

Note.—Contn. sheet.

W D 584—GBPM—5,000—21-10-32.

Enc: Application forms — 2
documents originals + Copies - 8
Total — 10

To.

The Chief Engineer of Mysore.
Public Works Department.
Bangalore.

Through.

The Assistant Secretary.
Public Works Department.
Bangalore

Sir,

I beg to Submit herewith application forms, with documents, for the Engineering Services Examination of 1940 Conducted by the Federal Public Services Commission, Delhi, for kind forwardal to the Chief Secretary to the Government of Mysore with the necessary permission as per clause "B" of the application form

I beg to Remain
Sir,
Your most obedient Servant

P.R. Seshadri.
Draftsman.

3/7/40.
Bangalore.

To

The Chief Secretary to the Government of Mysore,

BANGALORE.

Respected Sir,

In submitting herewith my application form for the Indian Railway Service of Engineer Examination 1940, with the allied documents, beg to state that the necessary papers and particulars required for the declaration of my eligibility under section 262 of Govt. of India Act, 1935, for the items 1, 2, 3, 5, 6 and 7 are also enclosed in their originals and duplicates thereof. For item 4, only a copy is enclosed, since the Original is enclosed as called for under the details of the application form. Regarding the items 8 and 9, I beg to state, that I have neither resided nor received any part of my education out-side India and that my father was a subject of the Mysore State at the time of his death.

I beg to remain,

Respected Sir,

Your most obedient servant

C. Viswanath.

Bangalore city.

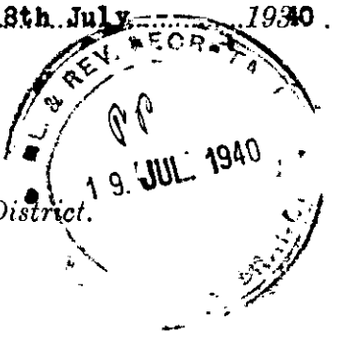
Dated 23/July/1940

5208/40

OFFICE OF THE DEPUTY COMMISSIONER,
SHIMOGA DISTRICT.

No. C.C. 3/40
Encs. 4

Dated Shimoga, the ... 18th July ..... 1940.



FROM

M. SESHADRI, ESQ., M.A.,
& District Magistrate,
Deputy Commissioner, Shimoga District.

TO

Rajaseva prasakta
.....B.T. KESAVIENGAR, ESQ., B.A.,
Chief *Secretary to the Government of His Highness the Maharaja of Mysore,*
..... ~~*Department*~~, *Bangalore.*

Subject:—

SIR,

CB. 383. IR. 1917 / June 1917

With reference to your letter No. 383 dated the 17th instant, I have the honour to return herewith the attestation form duly filled in. The enclosures received with your letter are herewith returned.

I have the honour to be,
Sir,
Your most obedient servant,

M. Seshadri

District Magistrate,
Shimoga District.

5-8-1940

OFFICE OF THE DEPUTY COMMISSIONER,
SHIMOGA DISTRICT.

No. C.C. 3/40
Encs. 4

Dated Shimoga, the ... 13th July ..... *1940*.

FROM

M. SESHADRI, ESQ., M.A.,
Deputy Commissioner, Shimoga District. & District Magistrate,

TO

Rajaseva prasakta
B.T. KESAVIENGAR, ESQ., B.A.,
Chief *Secretary to the Government of His Highness the Maharaja of Mysore,*
..... ~~*Department*~~, *Bangalore.*

Subject:—

SIR,

CB. 383. 17/7/1940

With reference to your letter No. 383 dated the 17th instant, I have the honour to return herewith the attestation form duly filled in. The enclosures received with your letter are herewith returned.

I have the honour to be,
Sir,
Your most obedient servant,

L. Seshadri

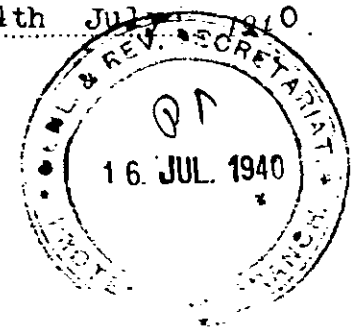
District Magistrate,
Shimoga District.

414/940

OFFICE OF THE DEPUTY COMMISSIONER,
MYSORE DISTRICT.

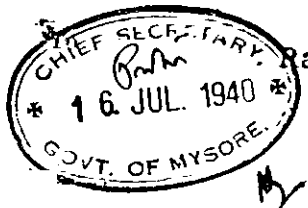
No. Gl- 25/40-41
Encls: 2

Dated, Mysore, the 14th July 1940.



From

K. SUBBA RAO, ESQ., B.A.,
DEPUTY COMMISSIONER,
Mysore District, Mysore.



To

Rajasevaprasakta
B.T. KESAVIENGAR, ESQ., B.A.,
Chief Secretary to Government of Mysore,
B A N G A L O R E.

Sir,

SUBJECT:- Application of Mr. L.S. Purushottama, for admission to the Engineering Services Examination 1940.

With reference to your letter No.P.188-90 dated the 8th July 1940 on the above subject, I have the honour to return herewith the application form and the attestation form, the latter duly filled in. The answers of the candidate to the questions in the application form were verified and found to be correct.

I have the honour to be,
Sir,
Your most obedient servant,

K Subba Rao

Deputy Commissioner,
Mysore District.

382/40

No.J3-P.R.25/40-41.

Enc. four.

OFFICE OF THE DISTRICT MAGISTRATE,
BANGALORE DISTRICT.

Dated Bangalore, 13th July *1940*

FROM

Abdul Aziz Khan, Esq., B.A.,
The District Magistrate,
Bangalore District.

Rajasevaprasakta
B.T. Kesavaiengar, Esq., B.A.,
Chief Secretary to Government,
Bangalore.

Sir,

With reference to your letter No.P.188-90 dated 8th July 1940 forwarding the copies of attestation forms as well as application forms of the marginally noted candidates for the Engineering Service Examination, 1940, conducted by the Federal Public Service Commission in British India, and requesting that they may be returned after verification of the facts stated by them, I have the honour to return them herewith after causing necessary verification.

Messrs.
N.R. Seshadri.
C. Visweswaria.
M. S. Muthanna.
V. Sitapati Ratnam.

The attestation forms are also returned after needful.

I have the honour to be,
Sir,
Your most obedient servant,

DISTRICT MAGISTRATE,
BANGALORE DISTRICT.

Duplicate

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Mysore Sundaraj Iyengar Mulhauua.
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	M. S. Mulhauua c/o M. Sundaraj Iyengar No 73 Gandhi Bazaar Street, Basavangudi, Bangalore city.
3. Exact date of birth	19th March 1919
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	Hunsur, Mysore District, Mysore State. (*a*) (*b*) Mysore State.
5. Are you a . . {*~~British subject~~ ? . . . Subject of an Indian State ? . *To this and the next question answer Yes or No and cancel the words which are not applicable.	no yes.
6. Is (or was) your father . {a ~~British subject~~ ? . a subject of an Indian State ?	No Yes
7. What is your religion ?	Hindu
8. State your . (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile). (*b*) Cast or sect . . . . (*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*a*) Hindu (*b*) Sree Vishnava Brahmin (*c*) no
9. Your father's name and place of birth . . .	M. Sundaraj Iyengar, Mysore
10. Did your father ever change his nationality ? If so, give particulars	no
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	Yes I have taken steps

12. Your father's postal address (if dead, give last address), profession and status . . .	H. Sundaraj Iyengar . Retired Veterinary Inspector, . No 73 Gandhi Bazaar Street, Basawangudi, Bangalore city.
13. What games did you play in School and College ? .	Cricket, Tennis
14. What languages (including Indian languages) can you read or speak ? Give particulars . .	Tamil (speak only)

Read only.	Read and speak.
	English
	Kannada

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
Mysore Government High School Jumma	1930 - 1931	1932-1933

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
Mysore University Intermediate College Bangalore	Intermediate College	1933-34	1935
University of Mysore College of Engineering Bangalore	College of Engineering Bangalore	1935-36	1939

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.
S.S.L.C.	II class			1933
Intermediate examination	II class			1935
First examination in Engineering	II class			1936
Second examination in Engineering	II class		Electrical Engineering	1938
B.E. Degree (electrical Branch)	II class		Electrical Engineering	1939

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.	Mr E K Ramaswamy B.Sc.(Lond) A.C.G.I, A.M.I.M.E, M.A.S.M.E, M.I.E. Principal University College of Engineering Bangalore
18. Have you had any special preparation for this examination ? If so, give particulars.	nil
19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . .	Undergone Practical training in the Mysore Govt electric factory, Bangalore From 22nd May 1939 to 1st April 1940 General Manager Govt electric factory Bangalore. Practical training in the Mysore Govt electrical Department Assistation. 8th Apr. 1940 to 4th July 1940
20. (*a*) Are you free from pecuniary embarrassments ? (*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars	(*a*) Yes (*b*) nil
21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission ? If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)	no

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. / Whether you were called for interview.	Your Roll number.	Rank.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission ? If the answer be "yes", give the name of the examination or the examinations.

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	Telegraph Engineering Service class 1
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* 1. Physics . . . . . . 2. Prime Movers . . . . . . 3. Hydraulics and Hydraulic Machines . . 4. Construction . . . . . . 5. Sanitary Engineering and Water Supply . 6. Electrical Engineering . . . (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering . 2. Applied Mechanics . . . . . . 3. Physics . . . . . . 4. Construction . . . . . . 5. Surveying . . . . . . 6. Prime Movers . . . . . . 7. Hydraulics and Hydraulic Machines . . 8. Sanitary Engineering and Water Supply .	1. Prime movers 2. Hydraulics and Hydraulic Machines
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 S.S.L.C. Certificate in original with a copy thereof 2 Certificate of character from Principal College of Engineering Bangalore 3 B.E. Degree (electrical) provisional certificate 4 Certificate of age from Principal College of Engineering all with copies.

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

* (*a*) ~~British subject domiciled in India.~~

(*b*) ~~Ruler~~ or subject of a State in India. Subject of a State in India

(*c*) ~~British subject *not* domiciled in India.~~

(*d*) ~~Native of a tribal area~~ or territory adjacent to India.

Signature. M. S. Mukhamma

Date. 6th July 1940

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh;
~~Sehjadhari Sikh and have never been a Keshadhari Sikh;~~
and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A).

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature——————

Designation——————

Date—————— Department——————

(B).

Certified that Mr.....who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature ——————

Designation ——————

Date—————— Department/Office——————

GIPD—M 58 FPSC—25-5-40—4,000.

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Lakshmipuram Srinivasachar Purushottama.
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	1108. Gita Road Chamarajapuram Mysore
3. Exact date of birth	27th October 1917.
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) Mysore City – Mysore State (*b*) Mysore State.
5. Are you a . . { ~~*British subject?~~ . . . . / Subject of an Indian State ? .	Yes.
*To this and the next question answer Yes or No and cancel the words which are not applicable.	
6. ~~Is (or was)~~ your father . { ~~a British subject?~~ . / a subject of an Indian State ?	Yes.
7. What is your religion ?	Hinduism.
8. State your . { (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*) Hindu.
(*b*) Cast or sect . . .	(*b*) Sri Vaishnava Brahmin.
(*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*) – No
9. Your father's name and place of birth . . .	Lakshmipuram Srinivasachar – Lakshmipuram. Kuppam
10. Did your father ever change his nationality ? If so, give particulars	No
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	No

12. Your father's postal address (if dead, give last address), profession and status	1108. Gita Road. Chamarajapuram. Mysore. Professor of Sanskrit. Maharaja's Sanskrit College Mysore.
13. What games did you play in School and College ?	Foot ball and Cricket
14. What languages (including Indian languages) can you read or speak ? Give particulars	

Read only.	Read and speak.
Sanskrit.	English.
Hindi.	Canarese.
Telugu.	I can speak Tamil.

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
Maharaja's High School Mysore	June 1930.	June 1933.

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
Mysore University.	Intermediate College.	June 1933	June 1935.
"	Engineering College.	June 1935.	June 1940.

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Class or Division.	Subjects taken.	Date.
Matriculation Exam	II		Additional Mathematics.	June 1933.
Intermediate Exam	II		Physics; Chemistry & Mathematics	June 1935.
B.E. Degree Exam	II		Electrical Engineering.	June 1940.

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.	Mr. E. K. Ramaswami - Principal. College of Engineering. Bangalore.
18. Have you had any special preparation for this examination? If so, give particulars.	No.
19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . .	—
20. (*a*) Are you free from pecuniary embarrassments? (*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars	(*a*) Yes (*b*)
21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission?	No
If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)	

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. Whether you were called for interview.	Your Roll number.	Rank.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission? If the answer be "yes", give the name of the examination or the examinations.

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	Indian Telegraph Service of Engineers Class I.
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes.
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* 1. Physics 2. Prime Movers 3. Hydraulics and Hydraulic Machines 4. Construction 5. Sanitary Engineering and Water Supply 6. Electrical Engineering (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering 2. Applied Mechanics 3. Physics 4. Construction 5. Surveying 6. Prime Movers 7. Hydraulics and Hydraulic Machines 8. Sanitary Engineering and Water Supply	— Applied Mechanics. Hydraulics and Hydraulic Machines.
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 A. treasury. receipt. for Rs. 7-8-0 2 ... Matriculation ... Certificate. 3 A. certificate. of. Character. and 4 .. Certificate. of. educational. qualification

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

* (*a*) ~~British subject domiciled in India.~~

(*b*) ~~Ruler or~~ subject of a State in India.

(*c*) ~~British subject *not* domiciled in India~~

(*d*) ~~Native of a tribal area or territory~~ adjacent to India.

Signature. L S Purushottama.

Date. 5th July 1940 –

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh ;

Sohjadhari Sikh and have never been a Keshadhari Sikh ;

and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A).

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature———————

Designation———————

Date——————— Department———————

(B).

Certified that Mr.....who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature ———————

Designation ———————

Date——————— Department/Office———————

GIPD—M 58 FPSC—25-5-40—4,000.

Copy

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Sitapathi Rathnam, Vudayagiri
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	C/- V. Ramakrishnaiya 1st. Sode Pheady Dodballapur (Mysore State)
3. Exact date of birth	29-5-1916
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) Bangalore City (*b*) Mysore Mysore State
5. Are you a . . { *British subject ? . . . Subject of an Indian State ?	Yes
*To this and the next question answer Yes or No and cancel the words which are not applicable.	
6. ~~Is (or~~ was) your father . { a British subject ? ~~a subject of an Indian State ?~~	Yes
7. What is your religion ?	Hindu
8. State your . { (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*) Hindu
(*b*) Cast or sect . . .	(*b*) Smartha, Brahmin
(*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*)
9. Your father's name and place of birth . . .	Rama Krishnaiya, Vudayagiri Vellore — Madras Presd.
10. Did your father ever change his nationality ? If so, give particulars	no
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	—

12. Your father's postal address (~~if dead~~, give last address), profession and status . . .	V. Ramakrishnaiya 1st Grade Pleader Dodballapur
13. What games did you play in School and College ? .	Cricket and ~~Foot~~ Ball.
14. What languages (including Indian languages) can you read or speak ? Give particulars .	

Read only.	Read and speak.
Hindi	English
Sanskrit	Kannada
	Telugu

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
Municipal High School Dodballapur	June 1928	March 1931

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
University of Mysore	Intermediate College	July 1931	March 1935
	College of Engineering	July 1935	March 1939

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.
Mysore S.S.L.C	II		Mathematics	March 1931
Mysore Intermediate	II		Physics, chemistry	
			Mathematics	March 1935
I Exam in Engineering	II		—	March 1936
II Exam " "	II		Civil	March 1938
B.E degree	II		Civil	March 1939

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.	Principal: College of Engineering: Bangalore
18. Have you had any special preparation for this examination ? If so, give particulars.	no
19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . .	working as an apprentice from 13th July 1939 in the Buildings Division: Mysore P.W.D Bangalore
20. (*a*) Are you free from pecuniary embarrassments ? (*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars	(*a*) Yes (*b*) —
21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission ? If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)	

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. Whether you were called for interview.	Your Roll number.	Rank.
Indian Railways Service of Engineers Central Engineering Service Class I	1939	Yes	20	55

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission ? If the answer be "yes", give the name of the examination or the examinations.	No

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	Indian Railway Service of Engineers and Central Engineering Service (Class I)
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	State worked Rys G.I.P Rys E.I.R E.B.R. B.N.R. S.I.R M.S.M.
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* — 1. Physics . . . . . . 2. Prime Movers . . . . . . 3. Hydraulics and Hydraulic Machines . 4. Construction . . . . . . 5. Sanitary Engineering and Water Supply . 6. Electrical Engineering . . . (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering . 2. Applied Mechanics . . . . . . 3. Physics . . . . . . 4. Construction . . . . . . 5. Surveying . . . . . . 6. Prime Movers . . . . . . 7. Hydraulics and Hydraulic Machines . 8. Sanitary Engineering and Water Supply .	(1) Hydraulics & Hydraulic Machines (2) Sanitary Engineering and water Supply
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 Certificate from Principal 2&3 S.S.L.C. Certificate & Date of Birth 4 Certificate of Practical Survey 5 Degree Certificate 6 Treasury Receipt for Rs 7-8-0 7 Certificate from Exec. Engr

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

* (*a*) ~~British subject domiciled in India~~.
(*b*) ~~Ruler~~ or subject of a State in India. Subject of an Indian State
(*c*) ~~British subject *not* domiciled in India~~.
(*d*) ~~Native of a tribal area or territory adjacent to India~~.

Signature. V. Shapathi Jaliaan

Date. 1st July 1940

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh;
~~Sehjadhari Sikh~~ and have never been a Keshadhari Sikh;
and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A)

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature——————

Designation——————

Date—————— Department——————

(B).

Certified that Mr.....who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature ——————

Designation ——————

Date—————— Department/Office——————

GIPD—M 58 FPSC—25-5-40—4,000.

Duplicate

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Nuggihalli RamaSwamy Iyengar, Seshadri.
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	N. R. Seshadri. C/o. N. RamaSwamy Iyengar. No 91. Basavanagudi II^nd Cross Road. Basavanagudi post Bangalore.
3. Exact date of birth	10th January 1916.
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) Bindiganaule, Mysore State (*b*) Mysore State.
5. Are you a . . { *~~British subject~~ ? . . . Subject of an Indian State ? .	Yes.
*To this and the next question answer Yes or No and cancel the words which are not applicable.	
6. Is (or was) your father . . { *~~a British subject~~ ? . a subject of an Indian State ?	Yes.
7. What is your religion ?	Hinduism
8. State your { (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*) Hindu.
{ (*b*) Cast or sect . . .	(*b*) Brahmin.
{ (*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*) No.
9. Your father's name and place of birth . .	N. RamaSwamy Iyengar Bangalore Shimoga (Mysore State)
10. Did your father ever change his nationality ? If so, give particulars	No.
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	Yes. Yes.

12. Your father's postal address (if dead, give last address), profession and status . . .	V. Ramaswamy Iyengar. Retired Head Clerk. Mysore P.W.D. No. 91. Basavanagudi IInd Cross Road. Basavanagudi post. Bangalore
13. What games did you play in School and College ? .	Foot-ball and Basket ball.
14. What languages (including Indian languages) can you read or speak ? Give particulars . .	English, Kannada, Tamil, Telugu and Elementary Hindi.

Read only.	Read and speak.
	English.
	Kannada.
	Elementary Hindi.
	Tamil & Telugu (Speak only).

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
The National High School. Bangalore.	June 1927.	June 1930.

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
The Intermediate College Bangalore			
	Today 1930.		
Mysore University.	Intermediate College Bangalore.	July 1930	July 1933.
	Engineering College. Bangalore.	July 1933.	July 1937.

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.
Intermediate Examination (Leading to Engineering)	I Class.	1st Rank.	English, Kannada. Mathematics, Physics Chemistry & Geology.	June 1933.
1st Examination in Engineering	II Class.	IInd Rank.	General Engineering	June 1934.
IInd Exam in Engineering	I Class	1st Rank.	Civil Engineering	June 1936.
B.E degree Examination	II Class	II Rank & Proficiency gold medal for civil Engineering.	Civil Engineering	June 1937.

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.	Mr. B. Krishnaswamy Iyengar. Principal. College of Engineering Bangalore.
18. Have you had any special preparation for this examination? If so, give particulars.	Private Study.
19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . .	Serving the Government of Mysore in the P.W. Department in the temporary Capacity of a Surveyor from April 1938.
20. (*a*) Are you free from pecuniary embarrassments? (*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars	(*a*) Yes. (*b*) nil.
21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission? If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)	Yes.

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. Whether you were called for interview.	Your Roll number.	Rank.
Indian Railway Service of Engineers & Central Service of Engineers class I	1937	Yes.	53	16
Indian Railway Service of Engineers	1938.	Yes.	11	24.
Indian Railway Service & Central Service of Engineers	1939	Yes.	18	17.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission? If the answer be "yes", give the name of the examination or the examinations. — No.

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	Indian Railway Service of Engineers. Central Service of Engineers, Class I.
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	State-worked Railways. G. I. P. Railways.
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes.
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* 1. Physics . . . . . . 2. Prime Movers . . . . . . 3. Hydraulics and Hydraulic Machines . . 4. Construction . . . . . . 5. Sanitary Engineering and Water Supply . 6. Electrical Engineering . . . (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering . 2. Applied Mechanics . . . . . . 3. Physics . . . . . . 4. Construction . . . . . . 5. Surveying . . . . . . 6. Prime Movers . . . . . . 7. Hydraulics and Hydraulic Machines . . 8. Sanitary Engineering and Water Supply .	Hydraulics and Hydraulic Machines. Sanitary Engineering and water Supply.
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 Treasury receipt for Rs. 7-8-0. 2 S.S.L.C. Card for evidence of age. 3 Certificate of Character from the principal 4 B.E. degree Certificate. 5 certificate of training in Surveying.

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

* (*a*) ~~British subject domiciled in India.~~

(*b*) ~~Ruler or~~ subject of a State in India. Mysore State.

(*c*) ~~British subject *not* domiciled in India.~~

(*d*) ~~Native of a tribal area or territory adjacent to India.~~

Signature. N. R. Seshadri.

Date. 3rd July 1940.

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh ;
Sehjadhari Sikh and have never been a Keshadhari Sikh ;
and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A).

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature.....

Designation.....

Date..... Department.....

(B).

Certified that Mr. N. R. Seshadri who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature N. Seshadri

Designation Chief Engineer

Date 4-7-1940 Department/Office P. W. Dept

GIPD—M 58 FPSC—25-5-40—4,000.

True Copy.

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Colluraiyana Viswesweria.
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	C. Viswesweria. c/o C. Gurumurthi Esqr. B.E., No. 14, Fifth Main Road Chamaraj apet Bangalore city. (Mysore State) S. India.
3. Exact date of birth	25th August 1916.
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) Bangalore city; Mysore Province. (*b*) Mysore Province.
5. Are you a . . { ~~*British subject~~? Subject of an Indian State *To this and the next question answer Yes or No and cancel the words which are not applicable.	Yes.
6. Is (or was) your father . . { ~~a British subject~~? a subject of an Indian State ?	Yes.
7. What is your religion ?	Hindu.
8. State your { (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*) Hindu.
{ (*b*) Cast or sect . . .	(*b*) Brahmin.
{ (*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*) no.
9. Your father's name and place of birth . . .	Mr. C. Krishna Rao; Sringeri, (Mysore State)
10. Did your father ever change his nationality ? If so, give particulars	No.
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	Yes. I have taken steps to have the declaration made. They are enclosed herewith.

12. Your father's postal address (if dead, give last address), profession and status . . .	C. Krishna Rao, Esqr. B.A, B.L, No. 12, Fifth, Main Road Chamarajapet Bangalore City. } Advocate
13. What games did you play in School and College ? .	Cricket; Volley Ball. Badminton.
14. What languages (including Indian languages) can you read or speak ? Give particulars . . .	English, Kannada, Sanskrit

Read only.	Read and speak.
Sanskrit	English
	Kannada

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
Government Fort High School, Bangalore.	14-6-1929	28-6-1932.

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
University of Mysore,	1) Intermediate College, Bangalore	8-7-'32	8-6-'35
	2) University College of Engineering Bangalore.	3-7-35.	March 1939.

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.
1) Secondary School Leaving Certificate Examination.	First		Additional Mathematics	March 1932.
2) Intermediate Examination in Science	Second.		Physics, Chemistry, Mathematics.	March 1935
3) B.E. Degree Examination	First.		Civil Engineering.	March 1939.

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.

E. K. Ramaswamy, Esq. B.Sc., (Lond). A.C.G.I., A.M.I.E., MASME., M.I.E., Principal, University College of Engineering, Bangalore

18. Have you had any special preparation for this examination? If so, give particulars.

No.

19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full . . .

7-6-1939 to 17-11-1939 } Apprentice Engineers in Buildings Division in the University, Bangalore
17-11-1939 to 8-3-1940 } Employed temporarily in Central School of Engineering, Bangalore M.K. Gandabhai Esq. B.Sc., (Eng. Lond.) A.M.I.Mech.E (Lond) Superintendent School of Engineering Bangalore
18-3-1940 onwards. in Buildings Division Bangalore. Asst. Engineer

20. (*a*) Are you free from pecuniary embarrassments?
(*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars. . . . .

(a) yes.
(b)

21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission?

No.

If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place) . . . . . .

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. / Whether you were called for interview.	Your Roll number.	Rank.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission? If the answer be "yes", give the name of the examination or the examinations.

No.

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment .	Indian Railway Service of Engineers. Central Engineering Service - class I.
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	East Indian Railway. Great Indian Peninsular Railway
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes.
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained. (*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.* 1. Physics . . . . . . 2. Prime Movers . . . . . . 3. Hydraulics and Hydraulic Machines . . 4. Construction . . . . . . 5. Sanitary Engineering and Water Supply . 6. Electrical Engineering . . . . (*b*) *For Telegraph Engineering Service, Class I.* 1. Electrical Communication Engineering . 2. Applied Mechanics . . . . . . 3. Physics . . . . . . 4. Construction . . . . . . 5. Surveying . . . . . . 6. Prime Movers . . . . . . 7. Hydraulics and Hydraulic Machines . . 8. Sanitary Engineering and Water Supply .	3) Hydraulics & Hydraulic Machines. 5) Sanitary Engineering & Water Supply.
26. Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* Note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 Certificate of character by the Principal W.C.E., 2 University B.E. Degree Pass Certificate 3 S.S.L.C. Marks Card. 4 Certificate of Survey Training. 5) State Bank Treasury challan for Rs 7-8-0. 6) Papers & particulars for the declaration under Section 262, Govt. of India Act, 1935. 7) Certificate from the Executive Engineer, Buildings Br. Bangalore. 8) Age certificate from the Principal.

Copy

FEDERAL PUBLIC SERVICE COMMISSION (INDIA).

Application Form for the Engineering Services Examination, 1940.

[To be filled up by a candidate in his own handwriting and presented to the authority mentioned in clause (*b*) of the Instructions *not later than* the 8th July 1940].

1. Name in full	Paul Pothen.
2. Postal address in full . . . . . Any change of address should be communicated at once to the Collector or Deputy Commissioner or Political Officer or Agent and to the Secretary, Federal Public Service Commission. NOTE.—Candidates must make arrangements to see that communications addressed to them at the addresses stated in their application are redirected, if necessary. The Federal Public Service Commission make every effort to take account of changes in candidates' addresses but cannot accept any responsibility in this matter.	Paul Pothen Jog Falls P.O. Shimoga Dt. Mysore State.
3. Exact date of birth	8th Jan. 1916
4. (*a*) Place of birth and the Province in which it is situated (*b*) Province to which you belong . . .	(*a*) Naumangad. Travancore State (*b*) Travancore State.
5. Are you a *British subject ? . . . Subject of an Indian State ? . *To this and the next question answer Yes or No and cancel the words which are not applicable.	Yes
6. Is (or was) your father . { a British subject ? . a subject of an Indian State ?	Yes
7. What is your religion ?	Christianity
8. State your { (*a*) Community—(if European or Anglo-Indian, state whether you are or are not of Indian domicile).	(*a*) Jacobite Syrian.
(*b*) Cast or sect . . .	(*b*) Jacobite.
(*c*) Are you a member of a depressed class ? (Answer yes or no). If yes, give particulars.	(*c*) No.
9. Your father's name and place of birth . . .	K. E. Pothen. Mallapally. Travancore State.
10. Did your father ever change his nationality ? If so, give particulars	No
11. Is a declaration under section 262 of the Government of India Act, 1935, necessary to your eligibility ? If so, have you taken steps to have it made ?	No.

12. Your father's postal address (if dead, give last address), profession and status	K. E. Potter. Sub Engineer Water works. Alleppey.
13. What games did you play in School and College ?	Tennis. Badminton. Football. Hockey. Athletics.
14. What languages (including Indian languages) can you read or speak ? Give particulars	

Read only.	Read and speak.
	English.
	Malayalam
	Kanarese (Speaking).
	Tamil (do)
	Hindi (do)

15. Educational Institutions attended.—

(*a*) Secondary or High Schools.*

Name of Institution.	Date of entering.	Date of leaving.
Model High School. Trivandrum	June. 1924.	March. 1931.
Travancore Govt.		

* Including the Indian Military Academy, Dehra Dun.

(*b*) University or Universities or other places of higher education attended.

Name of University, etc.	College, if any.	Date of entering.	Date of leaving.
Madras University	College of Science Trivandrum	June 1931	March 1935
Mysore University	College of Engineering Bangalore	June 1936	March. 1940.

16. Give particulars of all examinations passed at the University or place of higher education, and degrees you obtained (*commencing with the Matriculation or equivalent examination*).

Examination or Degree.	For pass Candidates. Class or Division.	For Hons. candidates. Clas or Division.	Subjects taken.	Date.
S.S.L.C.	Pass.		Mathematics	1931.
Intermediate	I class		Math; Physics. Chem	1933.
B. A	II class		Physics Chemistry	1935
B. E.	II class.		Civil Engineering	1941.

17. Give the name and designation of officer of the University, College or Institution, from whom you attach a certificate of character.

Principal College of Engineering Bangalore.

18. Have you had any special preparation for this examination? If so, give particulars.

Private Study.

19. If your time since leaving your University, College or Institution, is not fully accounted for by the replies given above, account for the remainder here with dates. If you have had employers, state their names and addresses in full

1935-6. One year (academic). Employed as Librarian Kesala Circulating Library. Ivan Road. Calicut.

20. (*a*) Are you free from pecuniary embarrassments?
(*b*) If you are under liability to repay money advanced by any institution or party for your education, state the particulars

(*a*) Yes.
(*b*) No.

21. (*a*) Have you been a candidate for any post advertised by, or for any examination conducted by, the Federal Public Service Commission?

No.

If so, give below the particulars and dates, including the place obtained (approximately if you do not recollect the exact place)

Name of Examination or Post for which you applied.	Year.	Whether you were admitted to the examination and whether you appeared thereat. Whether you were called for interview.	Your Roll number.	Rank.

(*b*) Have you applied for any other examination to be held shortly by the Federal Public Service Commission? If the answer be "yes", give the name of the examination or the examinations.

22. State the Service or Services, for which you wish to compete. If you are competing for more than one service, state in order of preference the Service to which you would desire to be appointed, if selected for appointment	Central Engineering Service Indian Railway Service of Engineers.
23. If you are selected for appointment to the Indian Railway Service of Engineers, state whether you would like to work on the State-worked Railways or on any of the Company-worked Railways, recruitment for which may be made on the results of the examination. (A candidate may, if he so chooses, enter against this item one or more or all of the Railways in order of preference).	State worked Rys.
24. Do you understand that Government have full discretion in the matter of appointing you to any of the Services should you be selected for appointment ?	Yes.
25. Write, in the column opposite, which two of the following subjects you select as optional subjects :— *N. B.*—No request for a change in the selection of optional subjects will be entertained.	
(*a*) *For the Indian Railway Service of Engineers or the Central Engineering Service, Class I.*	(1) Hydraulics & Hydraulic Machines
1. Physics	
2. Prime Movers	
3. Hydraulics and Hydraulic Machines . .	
4. Construction	(2) Sanitary Engineering and Water supply.
5. Sanitary Engineering and Water Supply .	
6. Electrical Engineering	
(*b*) *For Telegraph Engineering Service, Class I.*	
1. Electrical Communication Engineering .	
2. Applied Mechanics	
3. Physics	
4. Construction	
5. Surveying	
6. Prime Movers	
7. Hydraulics and Hydraulic Machines . .	
8. Sanitary Engineering and Water Supply .	
Give a list of the documents attached to the application. (Copies should also be attached where asked for, otherwise the originals will not be returned, *vide* foot note 2 to para. (*e*) (5) of the Instructions to Candidates).	1 Covered Registered Certificate 2 Certificate of surveying practice 3 Treasury Receipt for Rs 7/8/- 4

Declaration to be signed by the candidate.

I hereby declare that the statements in this application are true to the best of my knowledge and belief and that I am a—

* (*a*) British subject domiciled in India.

(*b*) Ruler or subject of a State in India.

(*c*) British subject *not* domiciled in India.

(*d*) Native of a tribal area or territory adjacent to India.

Signature. Paul Potter

Date. 5/7/40

* *Warning.*—If a candidate is not domiciled in India, he will not be allowed to compete for the Indian Railway Service of Engineers or for the Telegraphs Engineering Service, Class I, for both of which an Indian domicile is essential under the rules, but he may compete for the Central Engineering Service, Class I, for which an Indian domicile is not essential. Candidates are therefore warned that they should sign this declaration carefully and strike out the clauses which are not applicable to them.

Additional Declaration to be signed by those candidates who claim to be Sikhs.

I hereby declare that I am a *bona fide*
Keshadhari Sikh;
Sehjadhari Sikh and have never been a Keshadhari Sikh;
and I further declare that I have not embraced Sikhism within the twelve months preceding the issue of the Notice announcing the examination for which I am a candidate.

(Signature).....

(Date).....

Note.—In all correspondence with the Federal Public Service Commission candidates should state the name of the examination for which they have applied.

For the use of Government Servants only.

[*Vide* instruction (*a*)].

CERTIFICATE BY HEAD OF DEPARTMENT OR OFFICE.

(A).

Certified that Mr.....holds *substantively a permanent* post under the Central/Provincial Government. His character, so far as known to me, is good, and his work suggests that he would be suitable for appointment if he is successful in the examination. I recommend that he be admitted to it.

Signature——————

Designation——————

Date—————— Department——————

(B).

Certified that Mr.....who is employed in a *temporary* capacity in this Department/Office, has been permitted to apply for admission to the examination.

Signature——————

Designation——————

Date—————— Department/Office——————

GIPD—M 58 FPSC—25-5-40—4,000.

P.1115—Eds.

22nd July 1940.

Major A.E.H. Macann,
Secretary to the Hon'ble the Resident in Mysore,
Bangalore.

Engineering Services Examination - 1940.

With reference to your endorsement No.D.F.364-40/G.& A. dated 18th June 1940 and in continuation of this office letter No.Pol. 51 dated 9th July 1940 on the above subject, I am directed to forward herewith the applications of the marginally noted candidates along with attestation forms in respect of each of them duly filled in.

Messrs:
N.R. Seshadri.
M.S. Muthanna.
C.Visvesvaraiya.
V. Sithapathiratnam.
L.S. Purushothama.
Paul Pothan.

The necessary papers for a declaration of eligibility under section 262 of the Government of India Act, 1935, in favour of C. Visvesvaraiya are also enclosed herein.

I have the honour to be,
Sir,
Your most obedient servant,

22/7

For Chief Secretary to Government.